

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 3, 2004, 12:38:43 ; Search time 5583 Seconds
(without alignments)
10449.530 Million cell updates/sec

Title: US-09-989-724-386
Perfect score: 1346
Sequence: 1 gaagaagtgtgtgctgct.....aaaaaaaaaaaaaaaaaaaa 1346

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*

- 1: gb.ba.*
- 2: gb.htg.*
- 3: gb.in.*
- 4: gb.om.*
- 5: gb.ov.*
- 6: gb.pat.*
- 7: gb.ph.*
- 8: gb.pl.*
- 9: gb.pr.*
- 10: gb.ro.*
- 11: gb.sts.*
- 12: gb.sy.*
- 13: gb.un.*
- 14: gb.vi.*
- 15: em.ba.*
- 16: em.fun.*
- 17: em.hum.*
- 18: em.in.*
- 19: em.mu.*
- 20: em.or.*
- 21: em.ov.*
- 22: em.pat.*
- 23: em.ph.*
- 24: em.pl.*
- 25: em.ro.*
- 26: em.sts.*
- 27: em.un.*
- 28: em.vi.*
- 29: em.htg.hum.*
- 30: em.htg.inv.*
- 31: em.htg.other.*
- 32: em.htg.mus.*
- 33: em.htg.pln.*
- 34: em.htg.rtd.*
- 35: em.htg.rtd.*
- 36: em.htg.mam.*
- 37: em.htg.vrt.*
- 38: em.sy.*
- 39: em.htgo.hum.*
- 40: em.htgo.mus.*
- 41: em.htgo.other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1346	100.0	1346	6	AR252633	Sequence AR252633
2	1346	100.0	1346	6	AX403499	Sequence AX403499
3	1346	100.0	1346	6	AX464348	Sequence AX464348
4	1346	100.0	1346	9	AY359060	Homo sapi AY359060
5	1328.6	98.7	1605	9	BC014317	Homo sapi BC014317
6	1325.4	98.5	1377	9	BC050606	Homo sapi BC050606
7	1325.4	98.5	1440	9	BC015099	Homo sapi BC015099
8	1324.6	98.4	1447	6	BD205644	97 human BD205644
9	1321.8	98.2	1401	6	BD083420	Secrated BD083420
10	1309.4	97.3	1347	6	AX083392	Sequence AX083392
11	1307.8	97.2	1345	9	AF229179	Homo sapi AF229179
12	1305	97.0	1356	6	BD135300	110 human BD135300
13	845.2	62.8	862	6	BD270445	Genes ass BD270445
14	799.4	59.4	848	6	AR177334	Sequence AR177334
15	799.4	59.4	848	6	BD247957	5' EST of BD247957
16	799.4	59.4	848	6	AR340701	Sequence AR340701
17	799.4	59.4	848	6	AR412373	Sequence AR412373
18	799.4	59.4	848	6	AX884142	Sequence AX884142
19	799.4	59.4	848	6	BD023757	Sequence BD023757
20	799.4	59.4	848	6	BD073618	5' EST of BD073618
21	799.4	59.4	848	6	BD075896	5' EST of BD075896
22	799.4	59.4	848	6	BD076074	5' EST of BD076074
23	799.4	59.4	848	6	BD076775	5' EST of BD076775
24	799.4	59.4	848	6	BD077436	5' EST of BD077436
25	799.4	59.4	848	6	BD077737	5' EST of BD077737
26	799.4	59.4	848	6	BD085880	Elongatio BD085880
27	799.4	59.4	848	6	BD107926	EST and e BD107926
28	799.4	59.4	848	6	BD131408	cDNA enco BD131408
29	799.4	59.4	848	6	BD139270	Extended BD139270
30	799.4	59.4	848	6	BD203799	5' EST and BD203799
31	793.4	58.9	159446	9	AC003669	Homo sapi AC003669
32	793.4	58.9	165730	2	AC061988	Homo sapi AC061988
33	654	48.6	666	6	AX083382	Sequence AX083382
34	614.4	45.6	1222	10	BC049912	Mus muscu BC049912
35	589.8	43.8	1262	10	AF178085	Mus muscu AF178085
36	539.6	40.1	1181	10	AF178086	Rattus no AF178086
37	409.4	30.4	439	6	BD077452	5' EST of BD077452
38	405	30.1	462	6	BD058424	Secrated BD058424
39	191.2	14.2	112893	10	AL732294	Mouse DNA AL732294
40	191.2	14.2	234105	10	AC091606	Mus Muscu AC091606
41	182.6	13.6	1131	5	BC058203	Xenopus 1 BC058203
42	157.4	11.7	225558	2	AC103066	Rattus no AC103066
43	157.4	11.7	226820	2	AC118872	Rattus no AC118872
44	144.2	10.7	2415	6	AX047760	Sequence AX047760
45	125.6	9.3	2415	6	AX047764	Sequence AX047764

ALIGNMENTS

RESULT 1
AR252633
LOCUS AR252633
DEFINITION Sequence 386 from patent US 6478025.
ACCESSION AR252633
VERSION AR252633.1 GI:27300541
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 1346)
AUTHORS Winterbottom,J.M., Shimp,L., Boyce,T.M. and Kaes,D.
TITLE Implant, method of making same and use of the implant for the treatment of bone defects
JOURNAL Patent: US 6478025-A 386 12-NOV-2002;
linear PAT 20-DEC-2002
1346 bp DNA

FEATURES		Location/Qualifiers	
source		1..1346	
		/organism="unknown"	
		/mol_type="genomic DNA"	
ORIGIN			
Query Match 100.0%; Score 1346; DB 6; Length 1346;			
Best Local Similarity 100.0%; Pred. No. 2e-266;			
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1	GAAGAATGTTGGCTGCTCTTTTCTGGTACGTCCTTCAATTCATCTGCAACCTCTGCA	60
DB	1	GAAGAATGTTGGCTGCTCTTTTCTGGTACGTCCTTCAATTCATCTGCAACCTCTGCA	60
QY	61	CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATA	120
DB	61	CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATA	120
QY	121	GCATATGCTGGGATACCAATGAAGATACCTTCTCAAGCCGATGGTAGCTTCTCCATG	180
DB	121	GCATATGCTGGGATACCAATGAAGATACCTTCTCAAGCCGATGGTAGCTTCTCCATG	180
QY	181	AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC	240
DB	181	AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC	240
QY	241	CAGAGGTATCATTTCTGTTTGTGTTTACAGACCCCTTCAAAAATCACACCCCTTCTGCT	300
DB	241	CAGAGGTATCATTTCTGTTTGTGTTTACAGACCCCTTCAAAAATCACACCCCTTCTGCT	300
QY	301	GTGAGGTGCAATCAGCCATAGAAATGAACAGAACCGGATCAACATGCTTCTTCTA	360
DB	301	GTGAGGTGCAATCAGCCATAGAAATGAACAGAACCGGATCAACATGCTTCTTCTA	360
QY	361	AATGACCAAACTCTGAAATTTTAAATAATCCCTTCCACACTTGCACACCCATGAGACCA	420
DB	361	AATGACCAAACTCTGAAATTTTAAATAATCCCTTCCACACTTGCACACCCATGAGACCA	420
QY	421	TCGTGCCATCTGGATTAATTAATTTGGTGTGATATTTTGCATCATATAGTTGCAATT	480
DB	421	TCGTGCCATCTGGATTAATTAATTTGGTGTGATATTTTGCATCATATAGTTGCAATT	480
QY	481	GCATCTACTGTTTATCAGGATCTGCAACGTAGAAAGAACCAAGAACCCATCTGAA	540
DB	481	GCATCTACTGTTTATCAGGATCTGCAACGTAGAAAGAACCAAGAACCCATCTGAA	540
QY	541	GTGATGACGCTGAAGTGTGAAACATCATCAATTCGAAATGGCATCCCTCT	600
DB	541	GTGATGACGCTGAAGTGTGAAACATCATCAATTCGAAATGGCATCCCTCT	600
QY	601	GATCCCTCTGACATGAAGGGGGCATATTAATGATGCTTTCATGACAGAGATGAGAGC	660
DB	601	GATCCCTCTGACATGAAGGGGGCATATTAATGATGCTTTCATGACAGAGATGAGAGC	660
QY	661	TCACCCCTCTGAAAGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTTCTGT	720
DB	661	TCACCCCTCTGAAAGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTTCTGT	720
QY	721	GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTGTTTTCACCATCTT	780
DB	721	GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTGTTTTCACCATCTT	780
QY	781	CTTTTGTAAATAATTTGAATGCTTGAAGTGAAGAACCAATTAATACCAACAAC	840
DB	781	CTTTTGTAAATAATTTGAATGCTTGAAGTGAAGAACCAATTAATACCAACAAC	840
QY	841	ACCACTGAAATCATAGCTATTCACGACTCAAAATATTTCTAAATATTTTCTGACAGTA	900
DB	841	ACCACTGAAATCATAGCTATTCACGACTCAAAATATTTCTAAATATTTTCTGACAGTA	900
QY	901	TAGTGATTAATGTTGTCATGCTGATTTTGTAGTTATGATTTAAGCATTTTGTAGAAATA	960
DB	901	TAGTGATTAATGTTGTCATGCTGATTTTGTAGTTATGATTTAAGCATTTTGTAGAAATA	960

QY	961	AGATCAGGCATATGATATATTTTTCACACTTCAAGAGACCTTAAGGAAAAATAAATTTTCCA	1020
DB	961	AGATCAGGCATATGATATATTTTTCACACTTCAAGAGACCTTAAGGAAAAATAAATTTTCCA	1020
QY	1021	GTGGAGAAATACATATAATATGCTGTAGAAATCATTTGAAATGGAATCTTTTTCACGATCA	1080
DB	1021	GTGGAGAAATACATATAATATGCTGTAGAAATCATTTGAAATGGAATCTTTTTCACGATCA	1080
QY	1081	CTTATATCACTCTGTATATGACTAAGTAAACAAAGAGTGAAGTAAATTTTGTAAATGGA	1140
DB	1081	CTTATATCACTCTGTATATGACTAAGTAAACAAAGAGTGAAGTAAATTTTGTAAATGGA	1140
QY	1141	TGATAAAAAATGGAATTTACTCATATACAGGGTGAATTTTATCTCTGTTATCACACCAACA	1200
DB	1141	TGATAAAAAATGGAATTTACTCATATACAGGGTGAATTTTATCTCTGTTATCACACCAACA	1200
QY	1201	GTTCATATATATTTTCTGTAATATCAGCCCTCATATAGACAAATTTCTATTTGTTGACCAT	1260
DB	1201	GTTCATATATATTTTCTGTAATATCAGCCCTCATATAGACAAATTTCTATTTGTTGACCAT	1260
QY	1261	TCTACAAATTTCTAAAAGTCCCAATCTGTCTAACTTAATAAGTAAATTAATCATCTCTTTT	1320
DB	1261	TCTACAAATTTCTAAAAGTCCCAATCTGTCTAACTTAATAAGTAAATTAATCATCTCTTTT	1320
QY	1321	AAAAAATAAAAAAAAAAAAAA 1346	
DB	1321	AAAAAATAAAAAAAAAAAAAA 1346	

RESULT 2

AX403499

LOCUS

Sequence 386 from Patent WO0073454.

AX403499

ACCESSION

AX403499.1 GI:21436987

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1

Ashkenazi, A. J., Baker, K. P., Botstein, D., Desnovers, L., Eaton, D., Ferrar, N., Gerber, H., Gerritsen, M., Goddard, A., Godowski, P., Grimaldi, C. J., Gurney, A. L., Kijavini, I., Napier, M. A., Pan, J., Paoni, N. F., Roy, M., Stewart, T. A., Tumas, D., Watanabe, C. K., Williams, P., Wood, W. I. and Zhang, Z.

Secreted and transmembrane polypeptides and nucleic acids encoding the same

JOURNAL

Patent: WO 0073454-A 386 07-DEC-2000;

Genentech Inc. (US)

FEATURES

source

1..1346

/organism="Homo sapiens"

/mol_type="unassigned DNA"

/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 1346; DB 6; Length 1346;

Best Local Similarity 100.0%; Pred. No. 2e-266;

Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1

GAAGAATGTTGGCTGCTCTTTTCTGGTACGTCCTTCAATTCATCTGCAACCTCTGCA

60

DB

1

GAAGAATGTTGGCTGCTCTTTTCTGGTACGTCCTTCAATTCATCTGCAACCTCTGCA

60

QY

61

CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATA

120

DB

61

CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATA

120

QY

121

GCATATGCTGGGATACCAATGAAGATACCTTCTCAAGCCGATGGTAGCTTCTCCATG

180

DB

121

GCATATGCTGGGATACCAATGAAGATACCTTCTCAAGCCGATGGTAGCTTCTCCATG

180

QY

181

AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC

240

DB

181

AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC

240

QY

241

CAGAGGTATCATTTCTGTTTGTGTTTACAGACCCCTTCAAAAATCACACCCCTTCTGCT

300

DB

241

CAGAGGTATCATTTCTGTTTGTGTTTACAGACCCCTTCAAAAATCACACCCCTTCTGCT

300

QY

301

GTGAGGTGCAATCAGCCATAGAAATGAACAGAACCGGATCAACATGCTTCTTCTA

360

DB

301

GTGAGGTGCAATCAGCCATAGAAATGAACAGAACCGGATCAACATGCTTCTTCTA

360

QY

361

AATGACCAAACTCTGAAATTTTAAATAATCCCTTCCACACTTGCACACCCATGAGACCA

420

DB

361

AATGACCAAACTCTGAAATTTTAAATAATCCCTTCCACACTTGCACACCCATGAGACCA

420

QY

421

TCGTGCCATCTGGATTAATTAATTTGGTGTGATATTTTGCATCATATAGTTGCAATT

480

DB

421

TCGTGCCATCTGGATTAATTAATTTGGTGTGATATTTTGCATCATATAGTTGCAATT

480

QY

481

GCATCTACTGTTTATCAGGATCTGCAACGTAGAAAGAACCAAGAACCCATCTGAA

540

DB

481

GCATCTACTGTTTATCAGGATCTGCAACGTAGAAAGAACCAAGAACCCATCTGAA

540

QY

541

GTGATGACGCTGAAGTGTGAAACATCATCAATTCGAAATGGCATCCCTCT

600

DB

541

GTGATGACGCTGAAGTGTGAAACATCATCAATTCGAAATGGCATCCCTCT

600

QY

601

GATCCCTCTGACATGAAGGGGGCATATTAATGATGCTTTCATGACAGAGATGAGAGC

660

DB

601

GATCCCTCTGACATGAAGGGGGCATATTAATGATGCTTTCATGACAGAGATGAGAGC

660

QY

661

TCACCCCTCTGAAAGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTTCTGT

720

DB

661

TCACCCCTCTGAAAGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTTCTGT

720

QY

721

GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTGTTTTCACCATCTT

780

DB

721

GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTGTTTTCACCATCTT

780

QY

781

CTTTTGTAAATAATTTGAATGCTTGAAGTGAAGAACCAATTAATACCAACAAC

840

DB

781

CTTTTGTAAATAATTTGAATGCTTGAAGTGAAGAACCAATTAATACCAACAAC

840

QY

841

ACCACTGAAATCATAGCTATTCACGACTCAAAATATTTCTAAATATTTTCTGACAGTA

900

DB

841

ACCACTGAAATCATAGCTATTCACGACTCAAAATATTTCTAAATATTTTCTGACAGTA

900

QY

901

TAGTGATTAATGTTGTCATGCTGATTTTGTAGTTATGATTTAAGCATTTTGTAGAAATA

960

DB

901

TAGTGATTAATGTTGTCATGCTGATTTTGTAGTTATGATTTAAGCATTTTGTAGAAATA

960

```
Qy 181 AGAAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACC 240
Db 181 AGAAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACC 240
Qy 241 CAGAGGATATCATCTCTGTTTGTGGTTAAGAGCCCTTCAAAAATTCACACCCCTTCTGCT 300
Db 241 CAGAGGATATCATCTCTGTTTGTGGTTAAGAGCCCTTCAAAAATTCACACCCCTTCTGCT 300
Qy 301 GTTGAGGTGCAATCAGCCATAGCAATGAAACAGAACCGGATCAACAAATGCCCTTTCTTCTA 360
Db 301 GTTGAGGTGCAATCAGCCATAGCAATGAAACAGAACCGGATCAACAAATGCCCTTTCTTCTA 360
Qy 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGGAACCA 420
Db 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGGAACCA 420
Qy 421 TCTGTGCCCATCTGGATTTATTTATTTGGTGTGATATTTTGCATCATATAGTTGCAATTT 480
Db 421 TCTGTGCCCATCTGGATTTATTTATTTGGTGTGATATTTTGCATCATATAGTTGCAATTT 480
Qy 481 GCATCTACTGATTTTATCAGGATCTGCAACCTGAGAAAGCAACAAAGAACCAATCTGAA 540
Db 481 GCATCTACTGATTTTATCAGGATCTGCAACCTGAGAAAGCAACAAAGAACCAATCTGAA 540
Qy 541 GTTGATGACGCTGAGATAAGTGTGAACCAATGATCAATTTGAAATGCGATCCCTCT 600
Db 541 GTTGATGACGCTGAGATAAGTGTGAACCAATGATCAATTTGAAATGCGATCCCTCT 600
Qy 601 GATCCCTGGAATGAGAGGGGGGATTAATGATGATGATGATGATGATGATGATGATGATGAT 660
Db 601 GATCCCTGGAATGAGAGGGGGGATTAATGATGATGATGATGATGATGATGATGATGATGAT 660
Qy 661 TCACCCCTCTCTGAGGGGCTGTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTGT 720
Db 661 TCACCCCTCTCTGAGGGGCTGTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTGT 720
Qy 721 GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780
Db 721 GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780
Qy 781 CTTTGTGTAATTAATTTGATGCTGCTGAAAGTGAAGAGCAATCATATATACCCCAAC 840
Db 781 CTTTGTGTAATTAATTTGATGCTGCTGAAAGTGAAGAGCAATCATATATACCCCAAC 840
Qy 841 ACCACTGAAATCATAGCTATTCAGCTCAAAATATTTCAAAATATTTTCTGACAGTA 900
Db 841 ACCACTGAAATCATAGCTATTCAGCTCAAAATATTTCAAAATATTTTCTGACAGTA 900
Qy 901 TAGTGTATAAATGTTGCTCATGTTGTTATTTGATTTAAGCAATTTTGAATA 960
Db 901 TAGTGTATAAATGTTGCTCATGTTGTTATTTGATTTAAGCAATTTTGAATA 960
Qy 961 AGATCAGGCATATGATATATTTTCACTTCAAGAGCTAAGGAAATTAATTTTCCA 1020
Db 961 AGATCAGGCATATGATATATTTTCACTTCAAGAGCTAAGGAAATTAATTTTCCA 1020
Qy 1021 GTGAGAGATACATATAATATGAGTGAAGAAATCATTGAAATGATCTTTTGTGAGATCA 1080
Db 1021 GTGAGAGATACATATAATATGAGTGAAGAAATCATTGAAATGATCTTTTGTGAGATCA 1080
Qy 1081 CTTATATCCTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTTGAATGGA 1140
Db 1081 CTTATATCCTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTTGAATGGA 1140
Qy 1141 TGGATAAAATGGAATTTACTCATATACAGGGTGAATTTTATCTGTTATCACACCAACA 1200
Db 1141 TGGATAAAATGGAATTTACTCATATACAGGGTGAATTTTATCTGTTATCACACCAACA 1200
Qy 1201 GTTGATTTATATTTTCTGATATACAGCCCTTAATGAGCAATTTCTATTTGTCGCAATT 1260
Db 1201 GTTGATTTATATTTTCTGATATACAGCCCTTAATGAGCAATTTCTATTTGTCGCAATT 1260
```

```
Qy 1261 TCTACAAATTTGTAAAGTCCAATCTGTCTAACTTAATAAAGTAATAATCATCTCTTTT 1320
Db 1261 TCTACAAATTTGTAAAGTCCAATCTGTCTAACTTAATAAAGTAATAATCATCTCTTTT 1320
Qy 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346
Db 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 3
AX464348
LOCUS AX464348 1346 bp DNA linear PAT 16-JUL-2002
DEFINITION Sequence 481 from Patent WO0140466.
ACCESSION AX464348
VERSION AX464348.1 GI:21899190
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Baker, K.P., Beresini, M., Deforge, L., Deanovers, L., Filvaroff, E.,
Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,
Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Wood, W.L. and Zhang, Z.
Secreted and transmembrane polypeptides and nucleic acids encoding
same
Patent: WO 0140466-A 481 07-JUN-2001;
Genentech Inc. (US)
FEATURES
location/Qualifiers
source 1..1346
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 1346; DB 6; Length 1346;
Best Local Similarity 100.0%; Pred. No. 2e-266;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGATGTTGTGGTCTCTTTTCTGTTGAGTGCATTCATGCTGAACTCTGCTCAA 60
Db 1 GAAAGATGTTGTGGTCTCTTTTCTGTTGAGTGCATTCATGCTGAACTCTGCTCAA 60
Qy 61 CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAA 120
Db 61 CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAA 120
Qy 121 GCATATGCTGGGATACCAATGAAGAATACCTTTCAAAGCGATGGTAGCTTTCTCCATG 180
Db 121 GCATATGCTGGGATACCAATGAAGAATACCTTTCAAAGCGATGGTAGCTTTCTCCATG 180
Qy 181 AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC 240
Db 181 AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC 240
Qy 241 CAGAGGTATCATTTCTGGTTTGTGTTAAGAGCCCTTCAAAAATTCACACCCCTTCTGCT 300
Db 241 CAGAGGTATCATTTCTGGTTTGTGTTAAGAGCCCTTCAAAAATTCACACCCCTTCTGCT 300
Qy 301 GTTGAGGTGCAATCAGCCATAGCAATGAAACAGAACCGGATCAACAAATGCCCTTTCTTCTA 360
Db 301 GTTGAGGTGCAATCAGCCATAGCAATGAAACAGAACCGGATCAACAAATGCCCTTTCTTCTA 360
Qy 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGGAACCA 420
Db 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGGAACCA 420
Qy 421 TCTGTGCCCATCTGGATTTATTTATTTGGTGTGATTTTGCATCATATAGTTGCAATTT 480
Db 421 TCTGTGCCCATCTGGATTTATTTATTTGGTGTGATTTTGCATCATATAGTTGCAATTT 480
Qy 481 GCATCTACTGATTTTATCAGGATCTGCAACCTGAGAAAGCAACAAAGAACCAATCTGAA 540
```

Db	481	GCACACTACTGATTTTATCAGGAGTATGCGCAAGCTAGAGAAAGACAAAGAACCATCTGAA	540
Qy	541	GTGGGATGACCTGCAAGATAAGTGTGAAAAATCATGATCACAAATTCGAAATGGCATCCCTCT	600
Db	541	GTGGGATGACCTGCAAGATAAGTGTGAAAAATCATGATCACAAATTCGAAATGGCATCCCTCT	600
Qy	601	GATCCCTGGAATGAGGGGGGCGCATATTAATGATGCGCTTCATGACAGAGATGAGAGC	660
Db	601	GATCCCTGGAATGAGGGGGGCGCATATTAATGATGCGCTTCATGACAGAGATGAGAGC	660
Qy	661	TCACCCCTCTCTGAGGGGCTGTGTTCTCTCTCCCTCAAGAAATTAACCAATTTGTTCTCT	720
Db	661	TCACCCCTCTCTGAGGGGCTGTGTTCTCTCTCCCTCAAGAAATTAACCAATTTGTTCTCT	720
Qy	721	GTGACTGTGAGCATCTCTGAAATACCAAGACGAGATCATATATTTTGTTCACCAATTC	780
Db	721	GTGACTGTGAGCATCTCTGAAATACCAAGACGAGATCATATATTTTGTTCACCAATTC	780
Qy	781	CTTTTGTATAAATTTTGAATGTCTTGAAAGTGAAGAAAGCAATCAATTAACCCCAAC	840
Db	781	CTTTTGTATAAATTTTGAATGTCTTGAAAGTGAAGAAAGCAATCAATTAACCCCAAC	840
Qy	841	ACCACTGAATCATAGCTATTACAGACTCAAAATATTCTTAAATATTTTCTGACAGTA	900
Db	841	ACCACTGAATCATAGCTATTACAGACTCAAAATATTCTTAAATATTTTCTGACAGTA	900
Qy	901	TAGTGTATAAATGTGCTGATGCTGATTTGTAGTATTGATTTAAGCAATTTTGAATAA	960
Db	901	TAGTGTATAAATGTGCTGATGCTGATTTGTAGTATTGATTTAAGCAATTTTGAATAA	960
Qy	961	AGATCAGGATATGATATATTTTTCACACTTCAAGACCTAAGGAAAAATAATTTTCCA	1020
Db	961	AGATCAGGATATGATATATTTTTCACACTTCAAGACCTAAGGAAAAATAATTTTCCA	1020
Qy	1021	GTGGAGATACATATATATGTTGAGAAATCAATGAAATGATCCTTTTGGACCATCA	1080
Db	1021	GTGGAGATACATATATATGTTGAGAAATCAATGAAATGATCCTTTTGGACCATCA	1080
Qy	1081	CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAAGTAATTTGTAATGGA	1140
Db	1081	CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAAGTAATTTGTAATGGA	1140
Qy	1141	TGATATAAATGAATTAATCATATACAGGGTGGAAATTTATCTGTTATCACCAACA	1200
Db	1141	TGATATAAATGAATTAATCATATACAGGGTGGAAATTTATCTGTTATCACCAACA	1200
Qy	1201	GTGATTTATATATTTCTGAAATATCAGCCCTTAATAGGCAATTTCTATTTGTTGACCAT	1260
Db	1201	GTGATTTATATATTTCTGAAATATCAGCCCTTAATAGGCAATTTCTATTTGTTGACCAT	1260
Qy	1261	TCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT	1320
Db	1261	TCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT	1320
Qy	1321	AAAAAAAAAAAAAAAAAAAAA 1346	
Db	1321	AAAAAAAAAAAAAAAAAAAAA 1346	
RESULT 4			
LOCUS	AY359060	1346 bp	linear
DEFINITION	Homo sapiens clone DNA61873 NX-17 (UNQ678) mRNA, complete cds.		
ACCESSION	AY359060		
VERSION	AY359060.1	GI:37183237	
KEYWORDS	FLI_CDNA.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
REFERENCE	1 (bases 1 to 1346)		
AUTHORS	Clark,H.P., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,		

Chen,J., Chow,B., Chui,C., Crowley,C., Grimaldi,C., Gu,Q., Hase,P.E., Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S., Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C., Schoenfeld,J., Seehagiri,S., Simmons,L., Singh,J., Smith,V., Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Weand,D., Woods,K., Xie,M.H., Yanaura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z., Goddard,A., Wood,W.I. and Godowski,P.	
The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment	
Genome Res. 13 (10), 2265-2270 (2003)	
2 (bases 1 to 1346)	
Clark,H.P.	
Direct Submission	
Submitted (01-AUG-2003) Department of Bioinformatics, Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080, USA	
Location/Qualifiers	
1..1346	
/organism="Homo sapiens"	
/mol_type="mRNA"	
/db_xref="taxon:9606"	
/clone="DNA61873"	
1..1346	
/locus_tag="UNQ678"	
7..645	
/locus_tag="UNQ678"	
/note="PRO1312"	
/codon_start=1	
/product="NX-17"	
/protein_id="AAQ89419.1"	
/db_xref="GI:37183238"	
/translation="MLLFLFLVTAIHAELOCPGAENAFKVLRSIRFALDGKAYAWDT NREYLPKAMVAFMRKVPNREATEISHVLLCNVQRVSFVFTVPSKNHTLPAVEVQ SAIKWKNRINNAFLNDOTLFLKIPSLAPMDPSVPWIIIFGVICIIIVAIAL LILSGIWRERKKEPSEVDDAEDKCNMTIENGIPSDPLDMKGGILMPS"	
ORIGIN	
Query Match 100.0%; Score 1346; DB 9; Length 1346;	
Best Local Similarity 100.0%; Pred. No. 2e-266;	
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy 1 GAAAGATGTGTGGCTGCTCTTTTCTGGTCACTGCCATTCATGCTGAACCTCTGCAA 60	
Db 1 GAAAGATGTGTGGCTGCTCTTTTCTGGTCACTGCCATTCATGCTGAACCTCTGCAA 60	
Qy 61 CCAAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120	
Db 61 CCAAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120	
Qy 121 GCATATGCTCGGATACCAATGAAGAAATACCTCTTCAAAGCGATGGTAGCTTCCATG 180	
Db 121 GCATATGCTCGGATACCAATGAAGAAATACCTCTTCAAAGCGATGGTAGCTTCCATG 180	
Qy 181 AGAAAATGTTCCCAACAGAGAGCAACAGAAATTTCCATGCTCTTTCGAATGTACCC 240	
Db 181 AGAAAATGTTCCCAACAGAGAGCAACAGAAATTTCCATGCTCTTTCGAATGTACCC 240	
Qy 241 CAGAGGATATCTTCTGTTTGTGTTTACAGACCTTTCAAAAAATCACACCTTCTGCT 300	
Db 241 CAGAGGATATCTTCTGTTTGTGTTTACAGACCTTTCAAAAAATCACACCTTCTGCT 300	
Qy 301 GTTGAGGTGCAATCAGGCATATAGAAACAGAACCGGATCAACATGCTTCTTCTTA 360	
Db 301 GTTGAGGTGCAATCAGGCATATAGAAACAGAACCGGATCAACATGCTTCTTCTTA 360	
Qy 361 AATGACCAACTCTGGAAATTTTAAABAATCCCTTCCACACTTGCACCAACCCATGACCCA 420	
Db 361 AATGACCAACTCTGGAAATTTTAAABAATCCCTTCCACACTTGCACCAACCCATGACCCA 420	
Qy 421 TCTGTGCCATCTGGATTATATATTTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480	

Db 421 TCTGTGCCCATCTGGAATTAATATTTGGTGTGATATTTTTCATCATCATATAGTTCGAATT 480
Qy 481 GCACCTACTGATTTTATCATGGGATCTGGCAACCTAGAGAGAGAAACAAAGAACCACTCTGAA 540
Db 481 GCACCTACTGATTTTATCATGGGATCTGGCAACCTAGAGAGAGAAACAAAGAACCACTCTGAA 540
Qy 541 GTGGATGAGCTGAAGATAGTGTGAAGACATGATCACAATTTGAAGATGCGATCCCTCT 600
Db 541 GTGGATGAGCTGAAGATAGTGTGAAGACATGATCACAATTTGAAGATGCGATCCCTCT 600
Qy 601 GATCCCTCTGAGACATGAGGGGGGATATTAATGATGCTTCATGACAGAGATGAGAGGC 660
Db 601 GATCCCTCTGAGACATGAGGGGGGATATTAATGATGCTTCATGACAGAGATGAGAGGC 660
Qy 661 TCACCCCTCTCTGAGAGGCTGTGTCTGCTTCCTCAAGAAATTAAGCAATTTGTTCTGT 720
Db 661 TCACCCCTCTCTGAGAGGCTGTGTCTGCTTCCTCAAGAAATTAAGCAATTTGTTCTGT 720
Qy 721 GTGACTGCTGAGCATCTGAAATACCAAGAGGAGATCATATATTTGTTTACCAATTTCT 780
Db 721 GTGACTGCTGAGCATCTGAAATACCAAGAGGAGATCATATATTTGTTTACCAATTTCT 780
Qy 781 CTTTGTGAATAAATTTTCAAGTGTCTTCAAGAGTGAAGAGCAATCAATTTATACCCCAAC 840
Db 781 CTTTGTGAATAAATTTTCAAGTGTCTTCAAGAGTGAAGAGCAATCAATTTATACCCCAAC 840
Qy 841 ACCACTGAATCATAAGCTATTTCAGACTCAAAATATTCTAAATATTTTCTGACAGTA 900
Db 841 ACCACTGAATCATAAGCTATTTCAGACTCAAAATATTCTAAATATTTTCTGACAGTA 900
Qy 901 TAGTGTAATATGCTGATCTGATTTAGTATTTAGTATTTAGTATTTAGTATTTAGTATTT 960
Db 901 TAGTGTAATATGCTGATCTGATTTAGTATTTAGTATTTAGTATTTAGTATTTAGTATTT 960
Qy 961 AGATCAGCATATGATATATTTTTCACACTTCAAGAGCTAAGAGCAATCAATTTATTTTCCA 1020
Db 961 AGATCAGCATATGATATATTTTTCACACTTCAAGAGCTAAGAGCAATCAATTTATTTTCCA 1020
Qy 1021 GTGAGAGATACATATAATATGCTGTAGAAATCATTTGAAATGGATCTTTTGTGACATCA 1080
Db 1021 GTGAGAGATACATATAATATGCTGTAGAAATCATTTGAAATGGATCTTTTGTGACATCA 1080
Qy 1081 CTTATATACATCTGTATATGATTAAGTAAACAAAGTGAGAGATTAATTTTGTAAATGGA 1140
Db 1081 CTTATATACATCTGTATATGATTAAGTAAACAAAGTGAGAGATTAATTTTGTAAATGGA 1140
Qy 1141 TGGATAAAATGGAATTAATCTCATATACAGGGTGAATTTTATCTGTTTATCACACCCACA 1200
Db 1141 TGGATAAAATGGAATTAATCTCATATACAGGGTGAATTTTATCTGTTTATCACACCCACA 1200
Qy 1201 GTTGATTAATATTTTCTGAATATCAGCCCTTAATAGGACATTTCTATTTGTTGACCAAT 1260
Db 1201 GTTGATTAATATTTTCTGAATATCAGCCCTTAATAGGACATTTCTATTTGTTGACCAAT 1260
Qy 1261 TCTCAATTTGTAAGTCCCAATCTGTGCTAACTTAATAAGTAAATATATCATCTCTTTT 1320
Db 1261 TCTCAATTTGTAAGTCCCAATCTGTGCTAACTTAATAAGTAAATATATCATCTCTTTT 1320
Qy 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 5

BC014317
LOCUS BC014317 1605 bp mRNA linear PRI 04-OCT-2003
DEFINITION Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone
MGC:22707 IMAGE:4048217), complete cds.
ACCESSION BC014317
VERSION BC014317.1 GI:15680012
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1605)
Klausner, R.D., Collins, P.S., Wagner, L., Sherman, C.M., Schuler, G.D.,
Alschul, S.F., Zeeberg, B., Busto, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Schetz, T.E., Brownstein, M.J., Udwin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullish, S.J., Bosak, S.A., McEwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Pahey, J., Helton, E., Kettner, M., Madan, A., Rodriguez, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywicki, M.I., Skalska, U., Smalish, D.E.,
Schnerch, A., Schein, J.E., Jones, S.J., and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
22388257
12477932
2 (bases 1 to 1605)
Strausberg, R.
Direct Submission
Submitted (17-SEP-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Institute for Systems Biology
<http://www.systemsbio.org>
contact: amadansystemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Kettner, Anuradha
Madan, Stephanie Rodriguez, Amy Sanchez and Michelle Whiting
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Series: IMAGE Plate: 31 Row: n Column: 3.
Location/Qualifiers
1. 1605
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:22707 IMAGE:4048217"
/tissue_type="Bone marrow, chronic myelogenous leukemia"
/clone_lib="NIH MGC 54"
/lab_host="DH10B"
/note="Vector: pDNR-LIB"
1. 1605
/gene="MX17"
/note="synonym: NK-17"
/db_xref="LocusID:57393"
261. 929
/codon_start=1
/product="kidney-specific membrane protein"
/protein_id="AAH4317.1"
/db_xref="GI:15680013"
/db_xref="LocusID:57393"
/translation="MLALLFLVTAHAEIQCPGAENAFKVRSLRTALGDKAYAWDT
NEEYLFKAWAFPMKRVNRETRISVLLCNVTORVSFWVTVPSKNHTPAVEVQ
SAIPMKRINNAFLADOTLEFLKPSLAPPMDPSVPIWIIIGVLIILIAL
LITSLGIWRRRNKEPSEVDDAEKCNNTIENGIPSDPLDMKGSHINDAPWTER
LITPL"

ORIGIN

Query Match 98.7%; Score 1328.6; DB 9; Length 1605;
Best Local Similarity 99.6%; Pred. No. 7.5e-263;
Matches 1342; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

```
QY 1 GAAGAATCTTGGCTCTCTTTTCTGGTGGACCTTCATCTGCACTGCA 60
DB 255 GAAAGAATCTTGGCTCTCTTTTCTGGTGGACCTTCATCTGCACTGCA 314
QY 61 CAGAGTGCAGAAATCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
DB 315 CAGAGTGCAGAAATCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 374
QY 121 GCATATGCTGGGATACCAATGAAGAAATCTCTTCAAGCGATGGTAGCTTCTCCATG 180
DB 375 GCATATGCTGGGATACCAATGAAGAAATCTCTTCAAGCGATGGTAGCTTCTCCATG 434
QY 181 AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACCTTGGCAATGAACC 240
DB 435 AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACCTTGGCAATGAACC 494
QY 241 CAGAGGTATCATCTCTGTTTGTGTTTACAGACCTTTCAAAAAATCACACCTTCTCTGCT 300
DB 495 CAGAGGTATCATCTCTGTTTGTGTTTACAGACCTTTCAAAAAATCACACCTTCTCTGCT 554
QY 301 GTTAGGTGCAATCAGCCATAGAATGAACAAGACCGATCAACAAATGCTTCTTTCTA 360
DB 555 GTTAGGTGCAATCAGCCATAGAATGAACAAGACCGATCAACAAATGCTTCTTTCTA 614
QY 361 AATGACCAACTCTGAAATTTTAAATCCCTTCCACACTTGCACACCCATGAGACCA 420
DB 615 AATGACCAACTCTGAAATTTTAAATCCCTTCCACACTTGCACACCCATGAGACCA 674
QY 421 TCTGTGCCCATCTGGATATTAATTTGGTGTGATATTTTGCATCATCATAGTTGCAAT 480
DB 675 TCTGTGCCCATCTGGATATTAATTTGGTGTGATATTTTGCATCATCATAGTTGCAAT 734
QY 481 GCATCTACTGATTTATCAGGATCTGGACAGTAGAAGAAAGAAACAAGAACATCTGAA 540
DB 735 GCATCTACTGATTTATCAGGATCTGGACAGTAGAAGAAAGAAACAAGAACATCTGAA 794
QY 541 GTGGATGACGCTGAAGATAGTGTGAATCAATGATCACAATTTGAAATGGCATCCCTCT 600
DB 795 GTGGATGACGCTGAAGATAGTGTGAATCAATGATCACAATTTGAAATGGCATCCCTCT 854
QY 601 GATCCCTCGACATGAAGG-GGGCATATTAATGATGCTTTCATGACAGAGGATGAGGG 659
DB 855 GATCCCTCGACATGAAGGAGGGGCATATTAATGATGCTTTCATGACAGAGGATGAGGG 914
QY 660 CTCACCCCTCTCTGAAGGCTGTGTTCTGCTTCTTCAAGAAATTAACATTTGTTCTG 719
DB 915 CTCACCCCTCTCTGAAGGCTGTGTTCTGCTTCTTCAAGAAATTAACATTTGTTCTG 974
QY 720 TGTGACTGCTGAGCTCTGAAATACCAAGAGCAGATCATATATTTGTTTCCACCATCT 779
DB 975 TGTGACTGCTGAGCTCTGAAATACCAAGAGCAGATCATATATTTGTTTCCACCATCT 1034
QY 780 TCTTTTGTAAATTTTGAATGTGCTTGAAGTGAAGAGCAATCAATTAATATACCAACCA 839
DB 1035 TCTTTTGTAAATTTTGAATGTGCTTGAAGTGAAGAGCAATCAATTAATATACCAACCA 1094
QY 840 CACCACTGAATCATAGCTATTCAGACTCAAAATATTTCTAAATATTTTCTGACGT 899
DB 1095 CACCACTGAATCATAGCTATTCAGACTCAAAATATTTCTAAATATTTTCTGACGT 1154
QY 900 ATAGTGTATAAATGTGCTCATGTGTTTGTAGTTATTTGATTTAGCAATTTTGAAGAT 959
DB 1155 ATAGTGTATAAATGTGCTCATGTGTTTGTAGTTATTTGATTTAGCAATTTTGAAGAT 1214
QY 960 AAGATCAGGCATATGTATATATTTTCACTTCAAGACCTTAAGGAAAAATATTTTCC 1019
DB 1215 AAGATCAGGCATATGTATATATTTTCACTTCAAGACCTTAAGGAAAAATATTTTCC 1274
```

```
QY 1020 AGTGAGAAATACATATATATGTTAGAAATCATTTGAAATGGATCCTTTTGCAGATC 1079
DB 1275 AGTGAGAAATACATATATATGTTAGAAATCATTTGAAATGGATCCTTTTGCAGATC 1334
QY 1080 ACTTATATCAGCTCTGTATATGACTAAGTAAACAAAAGTGAAGTAAATTTATTTGTAATGG 1139
DB 1335 ACTTATATCAGCTCTGTATATGACTAAGTAAACAAAAGTGAAGTAAATTTATTTGTAATGG 1394
QY 1140 ATGGATAAAATGGAATTAATCATATACAGGTTGGAATTTTATCTCTGTTATCACCAAC 1199
DB 1395 ATGGATAAAATGGAATTAATCATATACAGGTTGGAATTTTATCTCTGTTATCACCAAC 1454
QY 1200 AGTTGATTAATATTTTCTGAATATCAGCCCTTAATAGACATTTCTATTTGTTGACCAT 1259
DB 1455 AGTTGATTAATATTTTCTGAATATCAGCCCTTAATAGACATTTCTATTTGTTGACCAT 1514
QY 1260 TTCTACAAATTTGTAAGTCCCAATCTGTCTAACTTAACTTAAAGTAAATATCATCTCTTTT 1319
DB 1515 TTCTACAAATTTGTAAGTCCCAATCTGTCTAACTTAAAGTAAATATCATCTCTTTT 1574
QY 1320 TAAAAAAAATAAAAAAATAAAAAA 1346
DB 1575 GTAAAAAATAAAAAAATAAAAAA 1601
```

RESULT 6
BC050606 1377 bp mRNA linear PRI 12-NOV-2003
LOCUS
DEFINITION
MGC:60059 IMAGE:5183554), complete cds.

ACCESSION
BC050606
VERSION
BC050606.1 GI:30047080
KEYWORDS
MGC.
SOURCE
Homo sapiens (human)

ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS
Straussberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Heide, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Urdin, T.B., Toshlyuk, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullaly, S.J., Bosak, S.A., McSwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Kettner, M., Madan, A., Rodriguez, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Kozminski, M.I., Skalska, U., Smal, M.A.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

TITLE
JOURNAL
MEDLINE
22388257
PUBMED
12477932
REFERENCE
2 (bases 1 to 1377)
Straussberg, R.

Direct submission
Submitted (08-APR-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA

REMARK
COMMENT
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgabbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.

CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Sequencing Group at the Stanford Human Genome
 Center, Stanford University School of Medicine, Stanford, CA 94305
 Web site: <http://www-shgc.stanford.edu>
 Contact: (Dickson, Mark) mcd@paxil.stanford.edu
 Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
 R. M.

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAC Plate: 110 Row: c Column: 4
 This clone was selected for full length sequencing because it
 passed the following selection criteria: matched mRNA gi: 21361864.

FEATURES

source

1..1377
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="MGC:60059 IMAGE:5183554"
 /tissue_type="Colon, Kidney, Stomach, adult, whole pooled"
 /clone_lib="NIH MGC_116"
 /lab_host="DH10B"
 /note="Vector: pCMV-SPORT6"

gene

1..1377
 /gene="NX17"
 /note="synonym: NX-17"
 /db_xref="LocusID:57393"
 9..677

CDS

/codon_start=1
 /product="kidney-specific membrane protein"
 /protein_id="AAH50606.1"
 /db_xref="GI:30047081"
 /db_xref="LocusID:57393"
 /translation="MLLPLPLVTAIHAELQCPGAENAFKVLRSIRTLALGDKAVAWDT
 NEELPKAVAPSRKRVNREATEISHVLLCNVTVSRFVFWTPDPKSNHLPVAVQ
 SAIRNKRINNAFFLDLEPKIPSLAPFMDPSVPIWIIIFGVIFCLIIIVAAIA
 LILSGIWQRKRNKEPSEVDDAEDKCNMIIENIGPSDPLDMKGHHINDAPMTBDR
 LTLPL"

ORIGIN

Query Match 98.5%; Score 1325.4; DB 9; Length 1377;
 Best Local Similarity 99.5%; Pred. No. 3.5e-262;
 Matches 1340; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

Oy 1 GAAAGATGTTGGGCTGCTCTTTTCTGGTGACTGCGCAATTCATGCTGAACCTCTGTCAA 60
 Db |||||
 3 GAAGAGATGTTGGGCTGCTCTTTTCTGGTGACTGCGCAATTCATGCTGAACCTCTGTCAA 62
 Oy 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGAGATAAA 120
 Db |||||
 63 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGAGATAAA 122
 Oy 121 GCATATGCTGGGATACCAATGAGAAATACCTCTTCAAGCCATGGTAGCTTTCTCCATG 180
 Db |||||
 123 GCATATGCTGGGATACCAATGAGAAATACCTCTTCAAGCCATGGTAGCTTTCTCCATG 182
 Oy 181 AGAAAAGTTCCCAACAGAGAACCAAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 240
 Db |||||
 183 AGAAAAGTTCCCAACAGAGAACCAAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 242
 Oy 241 CAGAGGATATCATTTCTGGTTTGGTTTACAGACCTTCAAAAATCACAACCTTCTCTGCT 300
 Db |||||
 243 CAGAGGATATCATTTCTGGTTTGGTTTACAGACCTTCAAAAATCACAACCTTCTCTGCT 302
 Oy 301 GTTAGGTGCAATCAGCCATAGAAATGAGAACCGGATCAACATGCTTCTTCTTA 360
 Db |||||
 303 GTTAGGTGCAATCAGCCATAGAAATGAGAACCGGATCAACATGCTTCTTCTTA 362
 Oy 361 AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACTTGCACCCACCCATGACCCA 420
 Db |||||
 363 AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACTTGCACCCACCCATGACCCA 422

Oy 421 TCTGTGCCATCTCGATTTATATATTTGGTGTGATATTTTGGCATCATCATAGTTCGAATT 480
 Db |||||
 423 TCTGTGCCATCTCGATTTATATATTTGGTGTGATATTTTGGCATCATCATAGTTCGAATT 482
 Oy 481 GCACCTACTGATTTTATCAGGATCTGGCAACCTGAGAGAAAGAAACAAAGAACCATCTGAA 540
 Db |||||
 483 GCACCTACTGATTTTATCAGGATCTGGCAACCTGAGAGAAAGAAACAAAGAACCATCTGAA 542
 Oy 541 GTGGATGACGCTGAAGATAAGTGTGAAACCATGATCACAATTTGAAATGGCATCCCTCT 600
 Db |||||
 543 GTGGATGACGCTGAAGATAAGTGTGAAACCATGATCACAATTTGAAATGGCATCCCTCT 602
 Oy 601 GATCCCTGGACATCAAGGG-GGGCATATTATGATGCTTCATGACAGAGATGAGAGG 659
 Db |||||
 603 GATCCCTGGACATCAAGGGGGGCGATATTAATGATGCTTCATGACAGAGATGAGAGG 662
 Oy 660 CTCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTTCTG 719
 Db |||||
 663 CTCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTTCTG 722
 Oy 720 TGTGACTGCTGACATCTCGAAATACCAAGACAGATCATATATTTTGTTCACCATTTCT 779
 Db |||||
 723 TGTGACTGCTGACATCTCGAAATACCAAGACAGATCATATATTTTGTTCACCATTTCT 782
 Oy 780 TCTTTTGAATTAATTTTGAATGCTTGAAGTGAAGAGCAATCAATATATACCCACCA 839
 Db |||||
 783 TCTTTTGAATTAATTTTGAATGCTTGAAGTGAAGAGCAATCAATATATACCCACCA 842
 Oy 840 CACCACTGAATCATAAGCTATTACGACTCAAAATATTCTAAATATTCTTCTGACGT 899
 Db |||||
 843 CACCACTGAATCATAAGCTATTACGACTCAAAATATTCTAAATATTCTTCTGACGT 902
 Oy 900 ATAGTGTATAAATGTTGTCATGTTGTTTGTAGTTATTGATTAAAGCAATTTTGAAGAT 959
 Db |||||
 903 ATAGTGTATAAATGTTGTCATGTTGTTTGTAGTTATTGATTAAAGCAATTTTGAAGAT 962
 Oy 960 AAGATCAGGCATATGATATATTTTCACTTCAAGACTAAGAGAAATAAATTTTCC 1019
 Db |||||
 963 AAGATCAGGCATATGATATATTTTCACTTCAAGACTAAGAGAAATAAATTTTCC 1022
 Oy 1020 AGTGAGAGATACATATAATATGTTAGAAATCATTTGAAATGCAATCTTTTTCAGCATC 1079
 Db |||||
 1023 AGTGAGAGATACATATAATATGTTAGAAATCATTTGAAATGCAATCTTTTTCAGCATC 1082
 Oy 1080 ACTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAGTAAATTTATGTAATGG 1139
 Db |||||
 1083 ACTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAGTAAATTTATGTAATGG 1142
 Oy 1140 ATGGATATAAATGGAATTTACTCATATACAGGTTGGAATTTTATCTGTTATCACACCAAC 1199
 Db |||||
 1143 ATGGATATAAATGGAATTTACTCATATACAGGTTGGAATTTTATCTGTTATCACACCAAC 1202
 Oy 1200 AGTGATATATATTTTCTGAAATATCAGCCCTTAATAGACAAATCTTATTTGTTGACCAT 1259
 Db |||||
 1203 AGTGATATATATTTTCTGAAATATCAGCCCTTAATAGACAAATCTTATTTGTTGACCAT 1262
 Oy 1260 TTCTCAATTTCTAAAGTCCCAATCTGTCTAACTTAATAAAGTAAATATCATCTCTTTT 1319
 Db |||||
 1263 TTCTCAATTTCTAAAGTCCCAATCTGTCTAACTTAATAAAGTAAATATCATCTCTTTT 1322
 Oy 1320 TAAAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 1346
 Db |||||
 1323 TGAATGTGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 1349

RESULT 7

BC015099

LOCUS

DEFINITION

Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone

MGC:22827 IMAGE:3829035), complete cds.

ACCESSION

BC015099

VERSION

BC015099.1

GI:15929328

KEYWORDS

MGC.

SOURCE ORGANISM	Homo sapiens (human)
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 1440) Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.N., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Suetow, K.H., Schat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, P., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.P., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Frange, C., Rana, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullaly, S.J., Bosak, S.A., McEwan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettner, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakeley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzyzanski, M.I., Skalska, U., Smallos, D.E., Schnerch, A., Schein, J.E., Jones, S.J., and Matra, M.A.
TITLE	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
JOURNAL MEDLINE	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
PUBMED	22388257
REFERENCE	12477932
AUTHORS	2 (bases 1 to 1440) Strausberg, R.
TITLE	Direct Submission
JOURNAL	Submitted (01-OCT-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
REMARK COMMENT	NIH-MGC Project URL: http://mgc.ncl.nih.gov Contact: MGC help desk Email: cgapbs-remail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: CLONTECH Laboratories, Inc. cDNA Library Arranged by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Institute for Systems Biology http://www.systemsbio.org Contact: amadansystemsbiology.org Anup Madan, Jessica Fahey, Erin Helton, Mark Kettman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAL Plate: 31 Row: d Column: 11. Location/Qualifiers 1. .1440 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="MGC:22827 IMAGE:3829035" /tissue_type="Kidney, hypernephroma" /clone_lib="NIH MGC 58" /lab_host="DH10B" /note="Vector: pDNR-LIB" 1. .1440 /gene="NX17" /note="synonym: NX-17" /db_xref="LocusID:57393" 89. _757 /codon_start=1 /product="kidney-specific membrane protein" /protein_id="AAH15099.1" /db_xref="GI:15929329" /db_xref="LocusID:57393" /translation="MLWLLFVLVTAHAEELCPGAENAFKVELSIRLALGDKAYAWDT NZEYLFKAWFVSMRKVPENREATEISHVLLCNVTFVFWFVVPDPSKNHTLPAYEVQ SAIRWNKRINNAFFLNDQTLSEFLKIPSTLAPDPFVPIWIIIFGVIPFIIVAIAL
FEATURES	source
gene	
CDS	

```

1043 AAGATCAGGATATGATATATATTTTTCACACTTCAAGACCTAAGGAAAAATAAATTTTCC 1102
1020 AGTGAGAAATACATATATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1079
1103 AGTGAGAAATACATATATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1162
1080 ACTTATATACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1139
1163 ACTTATATACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1222
1140 ATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1199
1223 ATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1282
1200 AGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1259
1283 AGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1342
1260 TTCTACAAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1319
1343 TTCTACAAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1402
1320 TAAAGAAAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1346
1403 TGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1429

```

```

RESULT 8
BD205644
LOCUS BD205644
DEFINITION 97 human secreted proteins.
ACCESSION BD205644
VERSION BD205644.1 GI:33015414
KEYWORDS JP 2002533058-A/21.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1447)
Ruben,S.M., Florence,K., Ni,J., Rosen,C.A., Carter,K.C.,
Moore,P.A., Olsen,H.S., Shi,Y., Young,P.B., Wei,P.F., Brewer,L.A.,
Soppet,D.R., Lafleur,D.W., Endress,G.A. and Ebner,R.
97 human secreted proteins
Patent: JP 2002533058-A 21 08-OCT-2002;
HUMAN GENOME SCIENCES INC
OS Homo sapiens (human)
PN JP 2002533058-A/21
PD 08-OCT-2002
PF 06-MAY-1999 JP 2000548451
PR 12-MAY-1998 US 60/085093,12-MAY-1998 US 60/085094 PR
12-MAY-1998 US 60/085105,12-MAY-1998 US 60/085180 PR
18-MAY-1998 US 60/085927,18-MAY-1998 US 60/085906 PR
18-MAY-1998 US 60/085924,18-MAY-1998 US 60/085922 PR
18-MAY-1998 US 60/085923,18-MAY-1998 US 60/085921 PR
18-MAY-1998 US 60/085925,18-MAY-1998 US 60/085928 PR
18-MAY-1998 US 60/085920
PI STEVEN M RUBEN, KIMBERLY FLORENCE, JIAN NI, CRAIG A ROSEN, KENNETH
C CARTER,
PI PAUL A MOORE, HENRIK S OLSEN, YANGGU SHI, PAUL E YOUNG, FING FEI
PI WEI,
PI LAURIE A BREWER, DANIEL R SOPPET, DAVID W LAFLEUR, GREGORY A PI
ENDRESS.
PI REINHARD EBNER
PC C12N15/09, C07K14/00, C07K16/18, C12N1/15, C12N1/19, PC
C12N1/21,
PC C12N5/10, C12P21/02, C12N15/00, C12N5/00
CC 97 human secreted proteins.
FH Key Location/Qualifiers
FT source 1. .1447
FT /organism='Homo sapiens (human)'.
FT Location/Qualifiers

```

```

source
1. .1447
/organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

ORIGIN

Query Match 98.4%; Score 1324.6; DB 6; Length 1447;
Best Local Similarity 99.3%; Pred. No. 5e-262;
Matches 1338; Conservative 2; Mismatches 6; Indels 1; Gaps 1;

QY 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACTGCGCAATTCATGCTCAACTCTCTCAA 60
DB 71 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACTGCGCAATTCATGCTCAACTCTCTCAA 130
QY 61 CCAGGTGAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA 120
DB 131 CCAGGTGAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA 190
QY 121 GCATATGCTGGGATACCAATGAAGAAATACCTCTTCAAGCGATGCTGCTCTCATG 180
DB 191 GCATATGCTGGGATACCAATGAAGAAATACCTCTTCAAGCGATGCTGCTCTCATG 250
QY 181 AGAAAAGTTCCCAACAGAGAAACACAGAAAATTTCCCATGCTCTACTTTGCAATGTAACC 240
DB 251 AGAAAAGTTCCCAACAGAGAAACACAGAAAATTTCCCATGCTCTACTTTGCAATGTAACC 310
QY 241 CAGAGGATATCATCTCTGTTTGTGTTTACAGACCCCTTCAAAAATATCACACCCCTTCTGCT 300
DB 311 CAGAGGATATCATCTCTGTTTGTGTTTACAGACCCCTTCAAAAATATCACACCCCTTCTGCT 370
QY 301 GTTGAGGTGCAATCAGCCATGAAGATGAACAGAAACCGGATCAACAAATGCTCTCTTCTA 360
DB 371 GTTGAGGTGCAATCAGCCATGAAGATGAACAGAAACCGGATCAACAAATGCTCTCTTCTA 430
QY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTCCACACTTGGCACCCACCAATGACCCA 420
DB 431 AATGACCAAACTCTGGAATTTTAAAAATCCCTCCACACTTGGCACCCACCAATGACCCA 490
QY 421 TCTGTGCCATCTGCAATTTATATTTGGTGTGATATTTTGCATCATCATAGTTGCAAT 480
DB 491 TCTGTGCCATCTGCAATTTATATTTGGTGTGATATTTTGCATCATCATAGTTGCAAT 550
QY 481 GCATCTAGTATTTTATCAGGATCTGGCAACGTAGAAGAAACCAAGAACCATCTGAA 540
DB 551 GCATCTAGTATTTTATCAGGATCTGGCAACGTAGAAGAAACCAAGAACCATCTGAA 610
QY 541 GTGGATGACGCTGAAGATAAGTGTGAAAACATGATCACAATTTGAAAATGCGCATCTCT 600
DB 611 GTGGATGACGCTGAAGATAAGTGTGAAAACATGATCACAATTTGAAAATGCGCATCTCT 670
QY 601 GATCCCTGGACATGAAGGG-GGGCATATTAATGATGCTTTCATGACAGAGGATGAGAG 659
DB 671 GATCCCTGGACATGAAGGGGGGCGCATATTAATGATGCTTTCATGACAGAGGATGAGAG 730
QY 660 CTACCCCTCTCTGAGAGGCTGTGTTCTGCTTCTCAAGAAATTTAAACATTTGTTCTG 719
DB 731 CTACCCCTCTCTGAGAGGCTGTGTTCTGCTTCTCAAGAAATTTAAACATTTGTTCTG 790
QY 720 TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTCT 779
DB 791 TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTCT 850
QY 780 TCTTTGTGTAATAAATTTTGAATGTGCTTTGAAAGTGAAGAAACCAATCAATTTATACCA 839
DB 851 TCTTTGTGTAATAAATTTTGAATGTGCTTTGAAAGTGAAGAAACCAATCAATTTATACCA 910
QY 840 CACCACTGAATCATAGCTATTCAGCATCAAAATATTTCTAAATATTTTCTGACAGT 899
DB 911 CACCACTGAATCATAGCTATTCAGCATCAAAATATTTCTAAATATTTTCTGACAGT 970
QY 900 ATAGTGATATAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 959
DB 971 ATAGTGATATAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1030

```

```
QY 960 AAGATCAGGCATATGATATATATTTTCAACCTTCAAGAGACCTAAGGAAAAATAAATTTTCC 1019
D 1031 AAGATCAGGCATATGATATATTTTCAACCTTCAAGAGACCTAAGGAAAAATAAATTTTCC 1090
QY 1020 AGTGAGAAATACATATAATATGATGATAGAAATCAATTTGAAAAATGATCCTTTTGGAGATC 1079
D 1091 AGTGAGAAATACATATAATATGATGATAGAAATCAATTTGAAAAATGATCCTTTTGGAGATC 1150
QY 1080 ACTTATATCACTCTGATATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1139
D 1151 ACTTATATCACTCTGATATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1210
QY 1140 ATGGATAAAAATGGAATTTACTCATATACAGGGTGGAAATTTTATCCTGTTTATCACCAAC 1199
D 1211 ATGGATAAAAATGGAATTTACTCATATACAGGGTGGAAATTTTATCCTGTTTATCACCAAC 1270
QY 1200 AGTTGATTTATATTTTCTGATATCAGCCCTTATAGCAATTTCTATTTGAGCAAT 1259
D 1271 AGTTGATTTATATTTTCTGATATCAGCCCTTATAGCAATTTCTATTTGAGCAAT 1330
QY 1260 TTCTACAAATTTGAAAGTCCAAATCTGCTAACTTAAATAAGTAATATCACTCTTTT 1319
D 1331 TTCTACAAATTTGAAAGTCCAAATCTGCTAACTTAAATAAGTAATATCACTCTTTT 1390
QY 1320 TAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTT 1346
D 1391 TGAATGTAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTT 1417

RESULT 9
BD083420
LOCUS Secreted proteins and polynucleotides encoding them. PAT 27-AUG-2002
DEFINITION
ACCESSION BD083420
VERSION BD083420.1 GI:22629030
KEYWORDS JP 2001523950-A/2.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 1401)
AUTHORS Jacobs,K., McCoy,J.M., Lavallie,E.R., Racie,L.A., Merberg,D.,
Treacy,M., Spaulding,V. and Agostino,M.J.
TITLE Secreted proteins and polynucleotides encoding them
JOURNAL Patent: JP 2001523950-A 2 27-NOV-2001;
GENETICS INSTITUTE INC
COMMENT PN JP 2001523950-A/2
PD 27-NOV-2001
PF 23-JAN-1998 JP 1998532177
PI 24-JAN-1997 US 08/788789
PI KENNETH JACOBS, JOHN M MCCOY, EDWARD R LAVALLE, LISA A RACIE, PI
DAVID MERBERG,
PI MAURICE TREACY, VIKKI SPAULDING, MICHAEL J AGOSTINO PC
C12N15/12, C12N5/10, C07K14/47, C12Q1/68, A61K38/17 CC Strandedness:
Double;
CC Topology: Linear;
FH Key Location/Qualifiers.
FEATURES
source 1..1401
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
ORIGIN
Query Match 98.2%; Score 1321.8; DB 6; Length 1401;
Best Local Similarity 99.8%; Pred. No. 1.9e-261;
Matches 1334; Conservative 0; Mismatches 2; Indels 1; Gaps 1;
QY 1 GAAGAATGTTGGGCTCTTTTCTGGTCACTGCCATTCATGCACTCTGTC 60
D 65 GAAGAATGTTGGGCTCTTTTCTGGTCACTGCCATTCATGCACTCTGTC 124
QY 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
```



```
RESULT 11
LOCUS AF229179 1345 bp mRNA linear PRI 05-APR-2002
DEFINITION Homo sapiens collectrin mRNA, complete cds.
ACCESSION AF229179
VERSION AF229179.1 GI:9957753
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1345)
AUTHORS Zhang, H., Wada, J., Hida, K., Teuchiyama, Y., Hiragushi, K.,
Shikata, K., Wang, H., Lin, S., Kanwar, Y. S. and Makino, H.
TITLE Collectrin, a collecting duct-specific transmembrane glycoprotein,
is a novel homolog of ACE2 and is developmentally regulated in
embryonic kidneys
JOURNAL J. Biol. Chem. 276 (20), 17132-17139 (2001)
MEDLINE 21264468
PUBMED 11278314
REFERENCE 2 (bases 1 to 1345)
AUTHORS Zhang, H., Wada, J. and Makino, H.
TITLE Human kidney specific membrane protein (NX-17)
JOURNAL Unpublished
REFERENCE 3 (bases 1 to 1345)
AUTHORS Zhang, H., Wada, J. and Makino, H.
TITLE Direct Submission
JOURNAL Submitted (28-JAN-2000) Department of Medicine III, Okayama
University Medical School, 2-5-1 Shikata-cho, Okayama 700-8558,
Japan
FEATURES
source
location/Qualifiers
1..1345
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
24..692
/note="Kidney-specific membrane protein NX-17; similar to
the Mus musculus and Rattus norvegicus products encoded by
GenBank Accession Numbers AF178085 and AF178086,
respectively"
/codon_start=1
/product="collectrin"
/protein_id="AAG09466.1"
/db_xref="GI:9957754"
/translation="MLMLFLVLAHAEIQGAEAFKVRSLIRALGDKAYAWDT
NREYLPKMAVAFSMKVPNREATEISHLVLCNVTORVSWFVVPDPSKNHITLPAVEVQ
SALRNKRNINNAFLNDQTLFLPSTLAPMPSVPIWIIIFGVIFCIILIAL
LILSGIWQRNRKPESEVDADKCNENITLNGIPSDPLDMKGGHINDAPMTSDER
LTP."
ORIGIN
Query Match 97.2%; Score 1307.8; DB 9; Length 1345;
Best Local Similarity 99.8%; Pred. No. 1.4e-258;
Matches 1320; Conservative 0; Mismatches 2; Indels 1; Gaps 1;
QY 1 GAAGAAGTGTGGCGTCTTTTCTGGTGACCTGCAATTCATGCTCAACTCTGTCAA 60
DB 18 GAAAGATGTGTGGCGTCTTTTCTGGTGACCTGCCATTCATGCTGACCTGTCAA 77
QY 61 CCAAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA 120
DB 78 CCAAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA 137
QY 121 GCATATGCTGGATACCAATGAGATACCTCTTCAAAGCGATGTAGCTTCTCCATG 180
DB 138 GCATATGCTGGATACCAATGAGATACCTCTTCAAAGCGATGTAGCTTCTCCATG 197
QY 181 AGAAAGTGTCCCAACAGAGAGCAACAGAAATTTCCATGTCTCTCTTTCGATGTAAC 240
DB 198 AGAAAGTGTCCCAACAGAGAGCAACAGAAATTTCCATGTCTCTCTTTCGATGTAAC 257
QY 241 CAGAGGGTATCATTTCTGGTTGTGGTTACAGACCCCTTCAAAAATCACACCCCTTCTGCT 300
258 CAGAGGGTATCATTTCTGGTTGTGGTTACAGACCCCTTCAAAAATCACACCCCTTCTGCT 317
301 GTTGAAGTGCATCAGCCATAGAAATGAACAGAACCGGATCAACAATGCTTCTTCTA 360
318 GTTGAAGTGCATCAGCCATAGAAATGAACAGAACCGGATCAACAATGCTTCTTCTA 377
361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGGCACCAACCATGACCCA 420
378 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGGCACCAACCATGACCCA 437
421 TCTGTGCCCATCTGGATTTATATATTTGGTGTGATATTTTGGCATCATCATAGTTGCAATT 480
438 TCTGTGCCCATCTGGATTTATATATTTGGTGTGATATTTTGGCATCATCATAGTTGCAATT 497
481 GCACCTACTGATTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 540
498 GCACCTACTGATTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 557
541 GTGGATGACGCTGAAGATAAGTGTGAACCATGATCACAATTTGAATAATGGCATCCCTCT 600
558 GTGGATGACGCTGAAGATAAGTGTGAACCATGATCACAATTTGAATAATGGCATCCCTCT 617
601 GATCCCTGGACATGAAGGG-GGGCATATTAATGATGCCTTCATGACAGAGGATGAGAGG 659
618 GATCCCTGGACATGAAGGGGGGATATTAATGATGCCTTCATGACAGAGGATGAGAGG 677
660 CTCACCCCTCTCTGAAGGGCTGTGTCTGCTTCTCAAGAAATTAACAATTTGTTTCTG 719
678 CTCACCCCTCTCTGAAGGGCTGTGTCTGCTTCTCAAGAAATTAACAATTTGTTTCTG 737
720 TGTGACTGCTGACATCTCGAATAACCAAGACAGATCATATATTTTGTGTTTACCAATCT 779
738 TGTGACTGCTGACATCTCGAATAACCAAGACAGATCATATATTTTGTGTTTACCAATCT 797
780 TCTTTTGAATTAATTTTGAATTCGCTTGAAGTGAAGCAATCAATTTATATATATATAT 839
798 TCTTTTGAATTAATTTTGAATTCGCTTGAAGTGAAGCAATCAATTTATATATATATAT 857
840 CACCACTGAAATCATAAGCTATTTCAGCTCAAAATATTCTAAAATATTCTTCTGACAGT 899
858 CACCACTGAAATCATAAGCTATTTCAGCTCAAAATATTCTAAAATATTCTTCTGACAGT 917
900 ATAGTGTATAATGTGGTCAATGCTGTTTGTAGTTTATGATTTAAGCAATTTTGAAGAAAT 959
918 ATAGTGTATAATGTGGTCAATGCTGTTTGTAGTTTATGATTTAAGCAATTTTGAAGAAAT 977
960 AAGATCAGGCATATGTTATATATTTTACACTTCAAGACCTCAAGCAATTAAGAAATTTTCC 1019
978 AAGATCAGGCATATGTTATATATTTTACACTTCAAGACCTCAAGCAATTAAGAAATTTTCC 1037
1020 AGTGGAGATACATATAATATGTTGTAGAAATCAATTTGAATAATGGAATCTTTTTCAGCATC 1079
1038 AGTGGAGATACATATAATATGTTGTAGAAATCAATTTGAATAATGGAATCTTTTTCAGCATC 1097
1080 ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGTAAATTTATGTAATAGG 1139
1098 ACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGTAAATTTATGTAATAGG 1157
1140 ATGGATATAATATATTTTCTGAATATATCAGGCCCTTAATAGGCAATTTCTTGTGACCAT 1199
1158 ATGGATATAATATATTTTCTGAATATATCAGGCCCTTAATAGGCAATTTCTTGTGACCAT 1217
1200 AGTTGATATATATTTTCTGAATATATCAGGCCCTTAATAGGCAATTTCTTGTGACCAT 1259
1218 AGTTGATATATATTTTCTGAATATATCAGGCCCTTAATAGGCAATTTCTTGTGACCAT 1277
1260 TTCTACAAATTTGTAAAGTCCCAATCTGTCTAACTTAATTAAGTAAATTAATCATCTCTTTT 1319
1278 TTCTACAAATTTGTAAAGTCCCAATCTGTCTAACTTAATTAAGTAAATTAATCATCTCTTTT 1337
1320 TAA 1322
```


[illegible]

```

1211 AGTTGATTATATTTTCTGNATATCAGCCCTTAATAGGACAAATCTATTTGTTGACCAT 1270
1260 TTCTACAAATTGTTAAAGTCCAACTCTGCTAACTTAATAAGTAATAATCAATCTCTTTT 1319
1271 TTCTACAAATTGTTAAAGTCCAACTCTGCTAACTTAATAAGTAATAATCAATCTCTTTT 1330
1320 TAAAAAATAAAAAAATAAAAAA 1345
1331 AAAAAAATAAAAAAATAAAAAA 1356

RESULT 13
BD270445 862 bp DNA linear PAT 17-JUL-2003
LOCUS
DEFINITION Genes associated with diseases of the kidney.
ACCESSION BD270445
VERSION BD270445.1 GI:33080213
KEYWORDS JP 2002541787-A/6.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Walker,M.G., Volkmut,W., Klingler,T.M., Azimzai,Y. and Yue,H.
AUTHORS Genes associated with diseases of the kidney
TITLE Patent: JP 2002541787-A 6 10-DEC-2002;
JOURNAL INCYTE PHARMACEUTICALS INC
COMMENT OS Homo sapiens (human)
PN JP 2002541787-A/6
PD 10-DEC-2002
PF 28-MAR-2000 JP 2000611563
PR 09-APR-1999 US 09/289349
PI MICHAEL G WALKER, WAYNE VOLKMUETH, TOD M KLINGLER, YALDA AZIMZAI,
PI HENRY YUE
PC C12N15/09, A61K31/7115, A61K31/7125, A61K35/76, A61K38/00, A61K39/
PC 395,
PC A61K39/395, A61K39/395, A61K48/00, A61P5/38, A61P9/12, A61P13/04,
PC A61P13/12,
PC A61P35/00, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21 PC
PC C12N5/10, C12N9/88,
PC C12Q1/68, G01N33/53, G01N33/566, C12N15/00, C12N5/00, A61K37/02 CC
Incyte ID No.: 2580580CT1
FH Key Location/Qualifiers
FT source 1. .862
FT location /organism='Homo sapiens (human)'.

FEATURES
source
1. .862 Location/Qualifiers
/organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

ORIGIN
Query Match 62.8%; Score 845.2; DB 6; Length 862;
Best Local Similarity 99.5%; Pred. No. 1.8e-163;
Matches 858; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 472 GTTGCAATTGCACTACTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAA 531
DB 1 GTTGCAATTGCACTACTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAA 60

QY 532 CCATCTGAAGTGGATGACCGCTGAAGATAAGTGTGAAAAACATGATCAATTTGAAATGGC 591
DB 61 CCATCTGAAGTGGATGACCGCTGAAGATAAGTGTGAAAAACATGATCAATTTGAAATGGC 120

QY 592 ATCCCTCTGATCCCTCGACATGAGGG-GGGCATATTAAATGATCGCTTCATGACAGAG 650
DB 121 ATCCCTCTGATCCCTCGACATGAGGGGGAGGGGCAATTAATGATGCTTCATGACAGAG 180

QY 651 GATGAGAGGCTCACCCCTCTCTGAGGGCTGTGTTCTGCTTCTCCTCAAGAAATTAACAT 710
DB 181 GATGAGAGGCTCACCCCTCTCTGAGGGCTGTGTTCTGCTTCTCCTCAAGAAATTAACAT 240
```

```

711 TTGTTTCTGTGTCAGTGTGAGCATCCTGAAATACCAAGAGCAGATCATATATTTTCTTT 770
DB 241 TTGTTTCTGTGTCAGTGTGAGCATCCTGAAATACCAAGAGCAGATCATATATTTTCTTT 300
QY 771 CACCATCTCTTTTGTGTAATAAATTTTGAATGTGCTTGAAGTGAAGCAATCAATAT 830
DB 301 CACCATCTCTTTTGTGTAATAAATTTTGAATGTGCTTGAAGTGAAGCAATCAATAT 360
QY 831 ACCCACCACACCATCTGAATCATAAAGCTATTCCAGCTCAAAATATTTCTAAATATTTT 890
DB 361 ACCCACCACACCATCTGAATCATAAAGCTATTCCAGCTCAAAATATTTCTAAATATTTT 420
QY 891 TCTGACAGTATAGTGTGTAATAAATGTGCTCATGTGGTATTGTTAGTATTGTTAAGCAT 950
DB 421 TCTGACAGTATAGTGTGTAATAAATGTGCTCATGTGGTATTGTTAGTATTGTTAAGCAT 480
QY 951 TTTAGAAATAAGATCAGGCATATGTATATATTTTCACTTTCAAGACCTTAAGGAAAAAT 1010
DB 481 TTTAGAAATAAGATCAGGCATATGTATATATTTTCACTTTCAAGACCTTAAGGAAAAAT 540
QY 1011 AAATTTTCCAGTGGAGATACATATATATGTTGTAGAAATCAATGAAATGGAATCTTT 1070
DB 541 AAATTTTCCAGTGGAGATACATATATATGTTGTAGAAATCAATGAAATGGAATCTTT 600
QY 1071 TTGACGATCACTTATATCTCTGTATATGACTAAGTAACAAAGTGAGAGTAATAT 1130
DB 601 TTGACGATCACTTATATCTCTGTATATGACTAAGTAACAAAGTGAGAGTAATAT 660
QY 1131 TGTAAATGATGATAAAAAATGGAATTTACTCATATACAGGGTGGAAATTTTATCTCTGTTAT 1190
DB 661 TGTAAATGATGATAAAAAATGGAATTTACTCATATACAGGGTGGAAATTTTATCTCTGTTAT 720
QY 1191 CACACCAACAGTGTGATATATATTTTCTGAATATACAGCCCTTAATAGGCAATTTCTATTT 1250
DB 721 CACACCAACAGTGTGATATATATTTTCTGAATATACAGCCCTTAATAGGCAATTTCTATTT 780
QY 1251 GTTGACCAATTTCTACAAATTTGTAAGATGCAATCTGTGCTAATCTTAATAAGTAATATC 1310
DB 781 GTTGACCAATTTCTACAAATTTGTAAGATGCAATCTGTGCTAATCTTAATAAGTAATATC 840
QY 1311 ATCTCTTTTAAAAAATAAAAAA 1332
DB 841 ATCTCTTAAAAAATAAAAAA 862

RESULT 14
LOCUS AR177334 848 bp DNA linear PAT 17-DEC-2001
DEFINITION Sequence 27 from patent US 6312922.
ACCESSION AR177334
VERSION AR177334.1 GI:17919689
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 848)
AUTHORS Edwards,J.-B.,Dumas,Milne., Duclert,A. and Bougueleret,L.
TITLE Complementary DNAs
JOURNAL Patent: US 6312922-A 27 06-NOV-2001;
FEATURES Location/Qualifiers
source 1. .848
/organism='unknown'
/mol_type='unassigned DNA'

ORIGIN
Query Match 59.4%; Score 799.4; DB 6; Length 848;
Best Local Similarity 98.8%; Pred. No. 4.6e-154;
Matches 809; Conservative 6; Mismatches 3; Indels 1; Gaps 1;

QY 1 GAAAGAAATGTGTGGCTGCTCTTTTCTGTGGTACCTGCCATTCATGCTGAATCTGTCAA 60
DB 26 GAAAGAAATGTGTGGCTGCTCTTTTCTGTGGTACCTGCCATTCATGCTGAATCTGTCAA 85
```

Qy 61 CCAGGTGCGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAAGAGCTCTGGGAGATAAA 120
Db 86 CCAGGTGCGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAAGAGCTCTGGGAGATAAA 145
Qy 121 GCATATGCTGGGATACCAATGAGATACCTCTCAAGCGATGGTAGCTTCTCCATG 180
Db 146 GCATATGCTGGGATACCAATGAGATACCTCTCAAGCGATGGTAGCTTCTCCATG 205
Qy 181 AGAAAGTTCCTCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 240
Db 206 AGAAAGTTCCTCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 265
Qy 241 CAGAGGTATCATTTCTGGTTGGTTGATACAGACCTTTCAAAAATCACCCTTCTGCT 300
Db 266 CAGAGGTATCATTTCTGGTTGGTTGATACAGACCTTTCAAAAATCACCCTTCTGCT 325
Qy 301 GTTGAGGTGCAATCAGACCAATGAAATGAAACAGGATCAACATGCTCTCTTCTA 360
Db 326 GTTGAGGTGCAATCAGACCAATGAAATGAAACAGGATCAACATGCTCTCTTCTA 385
Qy 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCAACCATGGAACCA 420
Db 386 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCAACCATGGAACCA 445
Qy 421 TCTGTGCTGATCTGGATTAATATTTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
Db 446 TCTGTGCTGATCTGGATTAATATTTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 505
Qy 481 GCATCTGATTTTATCAGGATCTGGCAAGTGAAGAGGATCAACATGCTCTCTTCTA 540
Db 506 GCATCTGATTTTATCAGGATCTGGCAAGTGAAGAGGATCAACATGCTCTCTTCTA 565
Qy 541 GTTGATGAGCTGGAATTAATGTAAGAAATGATCAATTTGAAATGGCATCCCTCT 600
Db 566 GTTGATGAGCTGGAATTAATGTAAGAAATGATCAATTTGAAATGGCATCCCTCT 625
Qy 601 GATCCCTGGACATGAAGG-GGGCATATTAATGATGCTTTCATGACAGAGATGAGAGG 659
Db 626 GATCCCTGGACATGAAGGAGGGCATATTAATGATGCTTTCATGACAGAGATGAGAGG 685
Qy 660 CTCACCTCTCTCAAGGCTGTGCTGCTCTCTCAAGAAATTAACATTTGTTCTG 719
Db 686 CTCACCTCTCTCAAGGCTGTGCTGCTCTCTCAAGAAATTAACATTTGTTCTG 745
Qy 720 TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATTTTGTTCACCATCT 779
Db 746 TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATTTTGTTCACCATCT 805
Qy 780 TCTTTGTAATAAATTTTGAATGCTCTTGAAGTGAATAA 818
Db 806 TCTTTGTAATAAATTTTGAATGCTCTTGAAGTGAATAA 844

RESULT 15
BD247957
LOCUS
DEFINITION 5' ESTs for secreted proteins expressed in various tissues.
ACCESSION BD247957
VERSION BD247957.1 GI:33057727
KEYWORDS JP 2002525024-A/22.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Eumetazoa; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
1 (bases 1 to 848)
Edwards, J.B.D.M., Duclert, A. and Lacroix, B.
5' ESTs for secreted proteins expressed in various tissues
Patent: JP 2002525024-A 22 13-AUG-2002;
GENSET
REFERENCE OS Homo sapiens (human)
AUTHORS PN JP 2002525024-A/22
TITLE PD 13-AUG-2002
JOURNAL PF 31-JUL-1998 JP 2000505294

PR 01-AUG-1997 US 08/905051
PI JEAN BAPTISTE DUMAS MILNE EDWARDS, AYMERIC DUCLERT, BRUNO PI
LACROIX
PC C12N15/09, C12N15/09, C07K14/47, C12M1/00, C12P21/02, C12N15/00, PC
C12N15/00
CC Von Heijne matrix
CC score 10.7
CC seq LMLFFLVTAIHA/SL
FH Key Location/Qualifiers
FT sig peptide 32..73.
Location/Qualifiers
1..848
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
FEATURES
ORIGIN
Query Match 59.4%; Score 799.4; DB 6; Length 848;
Best Local Similarity 98.8%; Pred. No. 4.6e-154;
Matches 809; Conservative 6; Mismatches 3; Indels 1; Gaps 1;
Qy 1 GAAAGAAATGTTGTGGCTGCTCTTTTCTGGTGACTGCGCAATTCATGCTGAACCTCTGTCAA 60
Db 26 GAAAGAAATGTTGTGGCTGCTCTTTTCTGGTGACTGCGCAATTCATGCTGAACCTCTGTCAA 85
Qy 61 CCAGGTGCGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAAGAGCTCTGGGAGATAAA 120
Db 86 CCAGGTGCGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAAGAGCTCTGGGAGATAAA 145
Qy 121 GCATATGCTGGGATACCAATGAGATACCTCTTCAAGCGATGGTAGCTTCTCCATG 180
Db 146 GCATATGCTGGGATACCAATGAGATACCTCTTCAAGCGATGGTAGCTTCTCCATG 205
Qy 181 AGAAAGTTCCTCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 240
Db 206 AGAAAGTTCCTCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 265
Qy 241 CAGAGGTATCATTTCTGGTTGGTTGATACAGACCTTTCAAAAATCACCCTTCTGCT 300
Db 266 CAGAGGTATCATTTCTGGTTGGTTGATACAGACCTTTCAAAAATCACCCTTCTGCT 325
Qy 301 GTTGAGGTGCAATCAGACCAATGAAATGAAACAGGATCAACATGCTCTCTTCTA 360
Db 326 GTTGAGGTGCAATCAGACCAATGAAATGAAACAGGATCAACATGCTCTTCTA 385
Qy 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCAACCATGGAACCA 420
Db 386 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCAACCATGGAACCA 445
Qy 421 TCTGTGCTGATCTGGATTAATATTTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
Db 446 TCTGTGCTGATCTGGATTAATATTTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 505
Qy 481 GCATCTGATTTTATCAGGATCTGGCAAGTGAAGAGGATCAACATGCTCTCTTCTA 540
Db 506 GCATCTGATTTTATCAGGATCTGGCAAGTGAAGAGGATCAACATGCTCTCTTCTA 565
Qy 541 GTTGATGAGCTGGAATTAATGTAAGAAATGATCAATTTGAAATGGCATCCCTCT 600
Db 566 GTTGATGAGCTGGAATTAATGTAAGAAATGATCAATTTGAAATGGCATCCCTCT 625
Qy 601 GATCCCTGGACATGAAGG-GGGCATATTAATGATGCTTTCATGACAGAGATGAGAGG 659
Db 626 GATCCCTGGACATGAAGGAGGGCATATTAATGATGCTTTCATGACAGAGATGAGAGG 685
Qy 660 CTCACCTCTCTCAAGGCTGTGCTGCTCTCTCAAGAAATTAACATTTGTTCTG 719
Db 686 CTCACCTCTCTCAAGGCTGTGCTGCTCTCTCAAGAAATTAACATTTGTTCTG 745
Qy 720 TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATTTTGTTCACCATCT 779
Db 746 TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATTTTGTTCACCATCT 805

Qy 780 TCCTTTGTAATAAAATTTTGAATGCTTGAAAGTGAAGA 818
|||
Db 806 TCCTTTGTAATAAAATTTTGAATGCTTGAAAGTGAAGA 844
|||

Search completed: April 3, 2004, 22:20:39
Job time : 5593 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 3, 2004, 12:31:18 ; Search time 654 Seconds
(without alignment)
8743.233 Million cell updates/sec

Title: US-09-989-724-386
Perfect score: 1346
Sequence: 1 gaagaatgtgtggtgct.....aaaaaaaaaaaaaaaa 1346

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747736

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_29Jan04.*
1: geneseqn1980s.*
2: geneseqn1990s.*
3: geneseqn2000s.*
4: geneseqn2001as.*
5: geneseqn2001bs.*
6: geneseqn2002s.*
7: geneseqn2003as.*
8: geneseqn2003bs.*
9: geneseqn2003cs.*
10: geneseqn2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1346	100.0	1346	3	Aaz65097 Membrane-
2	1346	100.0	1346	3	Aac58612 Human PRO
3	1346	100.0	1346	3	Aaa77680 Human PRO
4	1346	100.0	1346	4	Aaa21484 Human cDN
5	1346	100.0	1346	5	Aaf44243 Human PRO
6	1346	100.0	1346	7	Abx77959 Human PRO
7	1346	100.0	1346	7	Abx80371 Novel hum
8	1346	100.0	1346	7	Abx69277 Human cDN
9	1346	100.0	1346	7	Abx24093 Human hum
10	1346	100.0	1346	7	Abx90348 Human sec
11	1346	100.0	1346	7	Abx64194 CDNA enco
12	1346	100.0	1346	7	Abx67234 CDNA enco
13	1346	100.0	1346	7	Abx64416 Novel hum
14	1346	100.0	1346	7	Abx03843 CDNA enco
15	1346	100.0	1346	7	Abx89381 DNA enco
16	1346	100.0	1346	7	Abx80875 Human sec
17	1346	100.0	1346	7	Abx44384 CDNA enco
18	1346	100.0	1346	7	Abx42035 Human sec
19	1346	100.0	1346	7	Abx79555 Human sec
20	1346	100.0	1346	7	Abx93576 Novel hum
21	1346	100.0	1346	7	Abx81258 Novel hum
22	1346	100.0	1346	7	Abx04264 Human cDN
23	1346	100.0	1346	7	Abx93074 Novel hum

24	1346	100.0	1346	7	Abx17158
25	1346	100.0	1346	8	ACA68013
26	1346	100.0	1346	8	ACA88462
27	1346	100.0	1346	8	ACD81969
28	1346	100.0	1346	8	ADA46000
29	1346	100.0	1346	8	ADA76431
30	1346	100.0	1346	8	ADA19081
31	1346	100.0	1346	8	ADA61704
32	1346	100.0	1346	8	ADB19489
33	1346	100.0	1346	8	ADB28030
34	1346	100.0	1346	8	ADA86509
35	1346	100.0	1346	8	ADB16073
36	1346	100.0	1346	8	ADA37897
37	1346	100.0	1346	8	ADA47859
38	1346	100.0	1346	8	ADA21583
39	1346	100.0	1346	8	ADA10370
40	1346	100.0	1346	8	ADA67654
41	1346	100.0	1346	8	ADB30661
42	1346	100.0	1346	8	ADA85957
43	1346	100.0	1346	8	ADA17914
44	1346	100.0	1346	8	ADA97169
45	1346	100.0	1346	8	ADA79473

ALIGNMENTS

RESULT 1
AAZ65097
ID AAZ65097 standard; cDNA; 1346 BP.

AC AAZ65097;

DT 05-APR-2000 (first entry)

DB Membrane-bound protein PRO1312 encoding cDNA.

KW Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
pharmaceutical; receptor immunoadhesin; gene mapping; ss.

OS Homo sapiens.

PN WO9963088-A2.

PD 09-DEC-1999.

PF 02-JUN-1999; 99WO-US012252.

PR 02-JUN-1998; 98US-0087607P.

PR 02-JUN-1998; 98US-0087609P.

PR 03-JUN-1998; 98US-0087759P.

PR 04-JUN-1998; 98US-0088021P.

PR 04-JUN-1998; 98US-0088025P.

PR 04-JUN-1998; 98US-0088028P.

PR 04-JUN-1998; 98US-0088029P.

PR 04-JUN-1998; 98US-0088030P.

PR 04-JUN-1998; 98US-0088033P.

PR 05-JUN-1998; 98US-0088167P.

PR 05-JUN-1998; 98US-0088202P.

PR 05-JUN-1998; 98US-0088211P.

PR 05-JUN-1998; 98US-0088217P.

PR 09-JUN-1998; 98US-0088655P.

PR 10-JUN-1998; 98US-0088722P.

PR 10-JUN-1998; 98US-0088730P.

PR 10-JUN-1998; 98US-0088734P.

PR 10-JUN-1998; 98US-0088738P.

PR 10-JUN-1998; 98US-0088740P.

PR 10-JUN-1998; 98US-0088741P.

PR 10-JUN-1998; 98US-0088742P.

PR 10-JUN-1998; 98US-0088810P.

PR 10-JUN-1998; 98US-0088811P.

```
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 12-JUN-1998; 98US-0089402P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090423P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090433P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090533P.
PR 24-JUN-1998; 98US-0090538P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-009057P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090691P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090698P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091358P.
PR 01-JUL-1998; 98US-0091360P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091488P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091631P.
PR 02-JUL-1998; 98US-0091648P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095322P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096323P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097951P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 12-JAN-1999; 99US-0115565P.
XX
XX (GETH ) GENENTECH INC.
XX Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
PI Wood WI, Yuan J;
XX WPI; 2000-072883/06.
DR P-PSDB; AAY66751.
XX Membrane-bound proteins and related nucleotide sequences.
XX Claim 2; Fig 277; 822pp; English.
XX The invention provides membrane-bound PRO polypeptides and
CC polynucleotides encoding them. The PRO sequences of the invention were
CC identified based on extracellular domain homology screening. The PRO
CC sequences have homology with proteins including LDL receptors, TIE
CC ligands and various enzymes. The membrane-bound proteins and receptor
CC molecules are useful as pharmaceutical and diagnostic agents. Receptor
CC immunoadhesins, for instance, can be used as therapeutic agents to block
CC receptor-ligand interactions. The membrane-bound proteins can also be
CC employed for screening of potential peptide or small molecule inhibitors
CC of the relevant receptor/ligand interaction. The PRO encoding sequences
CC are useful as hybridization probes, in chromosome and gene mapping and in
CC the generation of antisense RNA and DNA. PRO nucleic acid sequences will
CC also be useful for the preparation of PRO polypeptides, especially by
CC recombinant techniques
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;
Query Match 100.0%; Score 1346; DB 3; Length 1346;
Best Local Similarity 100.0%; Pred.No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAAGAGATGTTGGCTGCTCTTTTCTGTGGACTGCCCATTCATGCTGAACCTCTGTCAA 60
```

Db 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGAATGCAATTCATGCTGAATCTGTCAA 60
Qy 61 CCAGGTGAGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGAGATAAA 120
Db 61 CCAGGTGAGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGAGATAAA 120
Qy 121 GCATATGCTGGGATACCAATGAAGATACTCTTCAAAGGATGGTAGCTTTCTCCATG 180
Db 121 GCATATGCTGGGATACCAATGAAGATACTCTTCAAAGGATGGTAGCTTTCTCCATG 180
Qy 181 AGAAAGTTCCTCAACAGAGAGACACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC 240
Db 181 AGAAAGTTCCTCAACAGAGAGACACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC 240
Qy 241 CAGAGGGTATCATTTCTGGTTGTGTGTACAGACCTTCAAAAATTCACACCTTCTCTGCT 300
Db 241 CAGAGGGTATCATTTCTGGTTGTGTGTACAGACCTTCAAAAATTCACACCTTCTCTGCT 300
Qy 301 GTTGAGGTGCAATCAGCCATGAAGATGAACAGAAACCGGATCAACAATGCTTTCTTTCTA 360
Db 301 GTTGAGGTGCAATCAGCCATGAAGATGAACAGAAACCGGATCAACAATGCTTTCTTTCTA 360
Qy 361 AATGACCAAACTCTGGAATTTTAAATATCCCTTCCACACTTGCACACCCATGGAACCA 420
Db 361 AATGACCAAACTCTGGAATTTTAAATATCCCTTCCACACTTGCACACCCATGGAACCA 420
Qy 421 TCTGTGCCATCTGCAATTAATATTTGGTGTGATATTTTGCATCATCATAGTGTCAATT 480
Db 421 TCTGTGCCATCTGCAATTAATATTTGGTGTGATATTTTGCATCATCATAGTGTCAATT 480
Qy 481 GCATCTACTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAAACAAAGAACCAATCTGAA 540
Db 481 GCATCTACTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAAACAAAGAACCAATCTGAA 540
Qy 541 GTGATGAGCTGAAGATAGTGTGAAGAAACATGATCACAATTTGAATGGCATCCCTCT 600
Db 541 GTGATGAGCTGAAGATAGTGTGAAGAAACATGATCACAATTTGAATGGCATCCCTCT 600
Qy 601 GATCCCTCTGGAATCAAGGGGGCATATTAATGATGCTTCAATGACAGAGATGAGAGGC 660
Db 601 GATCCCTCTGGAATCAAGGGGGCATATTAATGATGCTTCAATGACAGAGATGAGAGGC 660
Qy 661 TCACCCCTCTGGAAGGCTGTGTCTGCTTCTCAAGAAATTAACAATTTGTTCTGT 720
Db 661 TCACCCCTCTGGAAGGCTGTGTCTGCTTCTCAAGAAATTAACAATTTGTTCTGT 720
Qy 721 GTGACTGTGAGCATCTGGAATACCAAGAGCAGATCATATATTTGTTTCAACCATCTT 780
Db 721 GTGACTGTGAGCATCTGGAATACCAAGAGCAGATCATATATTTGTTTCAACCATCTT 780
Qy 781 CTTTGTGTAATAATTTTGAATGTGCTTGAAGTGAAGAAACATCAATTAATACCCCAAC 840
Db 781 CTTTGTGTAATAATTTTGAATGTGCTTGAAGTGAAGAAACATCAATTAATACCCCAAC 840
Qy 841 ACCACTGAAATCATAAGCTATTTCAGACTCAAAATATTCTAAATATTTTCTGACAGTA 900
Db 841 ACCACTGAAATCATAAGCTATTTCAGACTCAAAATATTCTAAATATTTTCTGACAGTA 900
Qy 901 TAGTGTAAATGTGGTCAATGTGATTTGTGATTTGATTTAAGCAATTTTAGAATA 960
Db 901 TAGTGTAAATGTGGTCAATGTGATTTGTGATTTGATTTAAGCAATTTTAGAATA 960
Qy 961 AGATCAGCATATGTATATTTTCCACTTCAAGAGCTAAGGAAATTAATTTTCCA 1020
Db 961 AGATCAGCATATGTATATTTTCCACTTCAAGAGCTAAGGAAATTAATTTTCCA 1020
Qy 1021 GTGAGAAATACATAATATGTTGTAGAAATCAATTTGAAATGATCTTTTGTGACATCA 1080
Db 1021 GTGAGAAATACATAATATGTTGTAGAAATCAATTTGAAATGATCTTTTGTGACATCA 1080
Qy 1081 CTTATATCACTCTGTATATGATTAAGTAAACAAAGTGAGAGATTAATTTGTAATGGA 1140
Db 1081 CTTATATCACTCTGTATATGATTAAGTAAACAAAGTGAGAGATTAATTTGTAATGGA 1140

Db 1081 CTTATATCACTCTGTATATGATTAAGTAAACAAAGTGAGAGATTAATTTGTAATGGA 1140
Qy 1141 TGGATAAAATGGAATTAATCAATATACAGGGTGGAAATTTTATCTCTTTATCAACAACA 1200
Db 1141 TGGATAAAATGGAATTAATCAATATACAGGGTGGAAATTTTATCTCTTTATCAACAACA 1200
Qy 1201 GTTGATTAATATTTTCTGAAATATCAGCCCTTAATAGGCAATTTCTATTTGTTGACCAT 1260
Db 1201 GTTGATTAATATTTTCTGAAATATCAGCCCTTAATAGGCAATTTCTATTTGTTGACCAT 1260
Qy 1261 TCTACAAATTTGTAAGTCCCAATCTGTGCTTACTTAAATAAGTAAATAATCACTCTTTT 1320
Db 1261 TCTACAAATTTGTAAGTCCCAATCTGTGCTTACTTAAATAAGTAAATAATCACTCTTTT 1320
Qy 1321 AAAAAAATTTGTAAGTCCCAATCTGTGCTTACTTAAATAAGTAAATAATCACTCTTTT 1346
Db 1321 AAAAAAATTTGTAAGTCCCAATCTGTGCTTACTTAAATAAGTAAATAATCACTCTTTT 1346
RESULT 2
AAC58612
ID AAC58612 standard; cDNA; 1346 BP.
XX AC AAC58612;
XX DT 29-JAN-2001 (first entry)
XX Human PRO1312 protein UNQ678 encoding cDNA SEQ ID NO:160.
DE Human; immune related disease; diagnosis; antiinflammatory; cardiant;
KW dermatological; antiarthritic; antirheumatic; immunosuppressive;
KW haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;
KW antianemic; hepatotropic; viricide; antipsoriatic; antiallergic;
KW antiasthmatic; systemic lupus erythematosus; rheumatoid arthritis;
KW osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;
KW idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
KW autoimmune thrombocytopenia; immune-mediated renal disease;
KW demyelinating disease; hepatobiliary disease; Whipple's disease;
KW inflammatory bowel disease; gluten-sensitive enteropathy;
KW autoimmune disease; immune-mediated skin disease; allergic disease;
KW immunological disease; transplantation associated disease;
KW graft rejection; graft-versus-host-disease; ss.
XX Homo sapiens.
OS WO200053758-A2.
XX PN 14-SEP-2000.
XX PD 02-MAR-2000; 2000WO-US005841.
XX PP 08-MAR-1999; 99WO-US005028.
XX PR 10-MAR-1999; 99US-0123618P.
XX PR 12-MAR-1999; 99US-0123957P.
XX PR 23-MAR-1999; 99US-0125775P.
XX PR 12-APR-1999; 99US-0128849P.
XX PR 20-APR-1999; 99WO-US008615.
XX PR 28-APR-1999; 99US-0131445P.
XX PR 04-MAY-1999; 99US-0132371P.
XX PR 14-MAY-1999; 99US-0134287P.
XX PR 02-JUN-1999; 99WO-US012252.
XX PR 23-JUN-1999; 99US-014037P.
XX PR 20-JUL-1999; 99US-0144758P.
XX PR 26-JUL-1999; 99US-0145698P.
XX PR 28-JUL-1999; 99US-0146222P.
XX PR 01-SEP-1999; 99WO-US020111.
XX PR 08-SEP-1999; 99WO-US020594.
XX PR 13-SEP-1999; 99WO-US020944.
XX PR 15-SEP-1999; 99WO-US021090.
XX PR 15-SEP-1999; 99WO-US021547.
XX PR 05-OCT-1999; 99WO-US023089.
XX PR 29-OCT-1999; 99US-0162506P.

PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030939.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
XX
PA (GETH) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;
XX
DR WPI; 2000-572271/53.
DR P-PSDB; AAB33447.
XX
XX Sixty four PRO polypeptides, useful in the diagnosis and treatment of
PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus.
XX
XX Claim 23; Fig 67; 309pp; English.
XX
CC The present invention describes sixty four human PRO proteins which can
CC be used in the treatment of immune related diseases. The human PRO
CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
CC treating and diagnosing immune related disorders. The disorders are
CC selected from systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, spondyloarthritis,
CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal disease, demyelinating diseases of the central and
CC peripheral nervous systems, hepatobiliary diseases, inflammatory bowel
CC disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune
CC or immune-mediated skin diseases, allergic diseases, immunological
CC diseases of the lung, and transplantation associated diseases including
CC graft rejection and graft-versus-host-disease. AAC58397 to AAC58578
CC represent PCR primers and hybridisation probes used in the isolation of
CC human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477
CC represent human PRO polynucleotide and protein sequences given in the
CC exemplification of the present invention
XX
XX Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;
SQ

Query Match 100.0%; Score 1346; DB 3; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAGAATCTTGGCGTCTTTTCTGGTACCTGCAATCATCTGCAATCTGTCAA 60
DB 1 GAAGAATCTTGGCGTCTTTTCTGGTACCTGCAATCATCTGCAATCTGTCAA 60

QY 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
DB 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120

QY 121 GCATATGCTCGGATACCAATGAAGAAATACCTCTTCAAAGCGATGGTAGCTTCTCCATG 180
DB 121 GCATATGCTCGGATACCAATGAAGAAATACCTCTTCAAAGCGATGGTAGCTTCTCCATG 180

QY 181 AGAAAAGTTCCTCCAAACAGAGAGACACAGAAATTTCCCATGTCTACTTTTGCATGTAAACC 240

DB 181 AGAAAAGTTCCTCCAAACAGAGAGACACAGAAATTTCCCATGTCTACTTTTGCATGTAAACC 240
QY 241 CAGAGGTATCATCTCTGGTTTGTGGTTACAGACCCCTTCAAAAAAATCACACCCCTTCTCTGCT 300
DB 241 CAGAGGTATCATCTCTGGTTTGTGGTTACAGACCCCTTCAAAAAAATCACACCCCTTCTCTGCT 300
QY 301 GTTGAGGTGCATACAGCCATGAAGATGAACAAGAACCGGATCAACAATGCTCTTTCTTA 360
DB 301 GTTGAGGTGCATACAGCCATGAAGATGAACAAGAACCGGATCAACAATGCTCTTTCTTA 360
QY 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCACCCATGGACCCA 420
DB 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCACCCATGGACCCA 420
QY 421 TCTGTGCCCATCTCGATATTATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
DB 421 TCTGTGCCCATCTCGATATTATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
QY 481 GCATCTAGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAACAAAGAACCATCTGAA 540
DB 481 GCATCTAGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAACAAAGAACCATCTGAA 540
QY 541 GTGATGAGCTGAAGATAAGTGTGAACAACATGATCACAATTTGAAAATGSCATCCCTCT 600
DB 541 GTGATGAGCTGAAGATAAGTGTGAACAACATGATCACAATTTGAAAATGSCATCCCTCT 600
QY 601 GATCCCTCTGGCATGAAGGGGGGCATATTAATGATGCTTTCATGACAGAGGATGAGAGGC 660
DB 601 GATCCCTCTGGCATGAAGGGGGGCATATTAATGATGCTTTCATGACAGAGGATGAGAGGC 660
QY 661 TCACCCCTCTGGAAGGGGCTGTGTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
DB 661 TCACCCCTCTGGAAGGGGCTGTGTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
QY 721 GTGATGCTGACATCTGAAATACACAGAGCAGATCATATATTTGTTTGTTCACATTTCT 780
DB 721 GTGATGCTGACATCTGAAATACACAGAGCAGATCATATATTTGTTTGTTCACATTTCT 780
QY 781 CTTTGTGTAATAATTTGAATGTCTTGAAGTGAAAGCAATCAATTAACCCCAAC 840
DB 781 CTTTGTGTAATAATTTGAATGTCTTGAAGTGAAAGCAATCAATTAACCCCAAC 840
QY 841 ACCACTGAAATCATAGCTATTTCAGACTCAAAAATTTCTAAAATATTTTTCGACAGTA 900
DB 841 ACCACTGAAATCATAGCTATTTCAGACTCAAAAATTTCTAAAATATTTTTCGACAGTA 900
QY 901 TAGTGTATAAATGTGCTCATGTGTTTGTAGTTTATTCATTTTAAGCATTTTGTAGAAATA 960
DB 901 TAGTGTATAAATGTGCTCATGTGTTTGTAGTTTATTCATTTTAAGCATTTTGTAGAAATA 960
QY 961 AGATCAGGCATATGTATATTTTCACTTCAAGACCTTAAGGAAAAATAAATTTTCCA 1020
DB 961 AGATCAGGCATATGTATATTTTCACTTCAAGACCTTAAGGAAAAATAAATTTTCCA 1020
QY 1021 GTGGAGATACATATAATGCTGTAGAAATCATTTGAAATGATCTTTTTCACGATCA 1080
DB 1021 GTGGAGATACATATAATGCTGTAGAAATCATTTGAAATGATCTTTTTCACGATCA 1080
QY 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAGTAATATTGTAAATGGA 1140
DB 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAGTAATATTGTAAATGGA 1140
QY 1141 TGGATAAATAATGGAATTTACTCATATACAGGGTGAATTTTATCTGTTATCACCAACA 1200
DB 1141 TGGATAAATAATGGAATTTACTCATATACAGGGTGAATTTTATCTGTTATCACCAACA 1200
QY 1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGCAATTTCTATTGTTGACCAT 1260
DB 1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGCAATTTCTATTGTTGACCAT 1260
QY 1261 TCTACAAATTTGTAAGAGTCCAATCTGTCTAACTTAATAAGTAATAATCATCTCTTTT 1320

Db 1261 TCTACAATTTGTAAAGTCCAACTCTGTCTAACTTAATAAAGTAATAATCAATCTCTTTTT 1320

Qy 1321 AAAAAAAAAAAAAAAAAAAAAAAAAA 1346

Db 1321 AAAAAAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 3

AAA77680

ID AAA77680 standard; cDNA; 1346 BP.

XX AC

XX AAA77680;

XX 07-NOV-2000 (first entry)

XX DE Human PRO1312 cDNA sequence SEQ ID NO:213.

XX KW Human; PRO; promotion; inhibition; angiogenesis; cardiovascularisation;
diagnosis; trauma; wound; cancer; atherosclerosis; cardiac hypertrophy;
angiogenic; proliferative; cardiac; cardiovascular; antiatherosclerotic;
cytostatic; gene therapy; vaccine; ss.

XX OS Homo sapiens.

XX FN WO200032221-A2.

XX XX 08-JUN-2000.

XX XX 30-NOV-1999; 99WO-US028313.

XX PR 01-DEC-1998; 98WO-US025108.

XX PR 16-DEC-1998; 98US-0112850P.

XX PR 12-JAN-1999; 99US-0115554P.

XX PR 08-MAR-1999; 99WO-US005028.

XX PR 12-MAR-1999; 99US-0123957P.

XX PR 28-APR-1999; 99US-0131445P.

XX PR 14-MAY-1999; 99US-0134287P.

XX PR 23-JUN-1999; 99WO-US012252.

XX PR 23-JUN-1999; 99US-0141037P.

XX PR 20-JUL-1999; 99US-0144758P.

XX PR 26-JUL-1999; 99US-0145698P.

XX PR 01-SEP-1999; 99WO-US020111.

XX PR 08-SEP-1999; 99WO-US020594.

XX PR 13-SEP-1999; 99WO-US020944.

XX PR 15-SEP-1999; 99WO-US021090.

XX PR 15-SEP-1999; 99WO-US021547.

XX PR 05-OCT-1999; 99WO-US023089.

XX PR 29-OCT-1999; 99US-0162506P.

XX (GETH) GENENTECH INC.

XX PA Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Hillan KJ;

XX PI Goddard A, Godowski PJ, Gurney AL, Klein RD, Kuo SS, Paoni NP;

XX P1 Smith V, Watanabe CK, Williams PM, Wood WI;

XX WPI; 2000-412154/35.

XX P-PSDB; AAB24430.

XX PT Nucleic acids encoding PRO polypeptides useful for preventing, diagnosing
PT and treating disorders in mammals.

XX PS Claim 61; Fig 85; 315pp; English.

XX CC The present invention describes nucleic acids encoding PRO polypeptides
CC useful for preventing, diagnosing and treating disorders in mammals by
CC cardiovascular, endothelial or angiogenic disorder in mammals by
CC modulating cell proliferation, angiogenesis and cardiovascularisation,
CC and for identifying agonists and antagonists of these processes. The
CC nucleic acids and the proteins they encode may be used in the prevention,
CC treatment and diagnosis of diseases associated with inappropriate PRO
CC expression such as cardiovascular, endothelial or angiogenic disorders in
CC mammals (e.g. atherosclerosis, cancers and cardiac hypertrophy). For

CC example, the nucleic acids (NCs) and vectors containing them and the PRO
CC polypeptide may be used to treat disorders associated with decreased PRO
CC expression. AAA77510 to AAA77721 and AAB24388 to AAB24435 represent
CC nucleotide and protein sequences used in the exemplification of the
CC present invention

XX SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Query Match 100.0%; Score 1346; DB 3; Length 1346;

Best Local Similarity 100.0%; Pred. No. 1.6e-262;

Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGAAATGTTGTGGCTCTCTTTTCTGTGATCGCAATTCATGCTGAATCTGTCAA 60

Db 1 GAAAGAAATGTTGTGGCTCTCTTTTCTGTGATCGCAATTCATGCTGAATCTGTCAA 60

Qy 61 CCAGGTGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAA 120

Db 61 CCAGGTGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAA 120

Qy 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGCTAGCTTTTCTCATG 180

Db 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGCTAGCTTTTCTCATG 180

Qy 181 AGAAAGTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTTCTTTCATGTAACC 240

Db 181 AGAAAGTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTTCTTTCATGTAACC 240

Qy 241 CAGAGGTATCATTTCTGTTTGTGTACAGACCTTCAAAAATCAGACCTTCTGCT 300

Db 241 CAGAGGTATCATTTCTGTTTGTGTGTACAGACCTTCAAAAATCAGACCTTCTGCT 300

Qy 301 GTTGAGGTGCAATCAGCCATAAGAAATGAACCAAGAACCCGATCAACAATGCTTCTTCTA 360

Db 301 GTTGAGGTGCAATCAGCCATAAGAAATGAACCAAGAACCCGATCAACAATGCTTCTTCTA 360

Qy 361 AATGACCAAACTCTGGAAATTTTAAAAATCCTTCCACATCTTGACCCACCCATGACCCA 420

Db 361 AATGACCAAACTCTGGAAATTTTAAAAATCCTTCCACATCTTGACCCACCCATGACCCA 420

Qy 421 TCTGTGCCCATCTGGATTAATATTTTGTGTGATATTTTGCATCATCATAGTTCGAAT 480

Db 421 TCTGTGCCCATCTGGATTAATATTTTGTGTGATATTTTGCATCATCATAGTTCGAAT 480

Qy 481 GCATCTACTGATTTTATCAGGATCTGGCAACGTTAGAGAAAGAAACAAAGAACCATCTGAA 540

Db 481 GCATCTACTGATTTTATCAGGATCTGGCAACGTTAGAGAAAGAAACAAAGAACCATCTGAA 540

Qy 541 GTGGATGACGCTGAAGATAAGTGTGAACCAATGATCACAATTTGAATAATGGCATCCCTCT 600

Db 541 GTGGATGACGCTGAAGATAAGTGTGAACCAATGATCACAATTTGAATAATGGCATCCCTCT 600

Qy 601 GATCCCTCGACATGAAGGGGGATTAATATGATGCTTCTATGACAGAGATGAGAGGC 660

Db 601 GATCCCTCGACATGAAGGGGGATTAATATGATGCTTCTATGACAGAGATGAGAGGC 660

Qy 661 TCACCCCTCTCTGAAGGGCTGTGTCTGCTTCTCTCAAGAAATTAACAATTTTCTCT 720

Db 661 TCACCCCTCTCTGAAGGGCTGTGTCTGCTTCTCTCAAGAAATTAACAATTTTCTCT 720

Qy 721 GTGACTGTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780

Db 721 GTGACTGTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780

Qy 781 CTTTGTAAATAATTTGAATGTGTAAGTGAAGCAATCAATTAATACCCCAAC 840

Db 781 CTTTGTAAATAATTTGAATGTGTAAGTGAAGCAATCAATTAATACCCCAAC 840

Qy 841 ACCACTGAATCATAGCTATTTCAGCTCAAAATATTCTAAATATTTTCTGCAGTA 900

Db 841 ACCACTGAATCATAGCTATTTCAGCTCAAAATATTCTAAATATTTTCTGCAGTA 900

Qy 901 TAGTGTAAATGTGGTGTGTTTGTAGTTATTTAGTATTTTAAAGCATTTTAAAGATA 960

Db 901 TAGTGTAAATGTGGTGTGTTTGTAGTTATTTAGTATTTTAAAGCATTTTAAAGATA 960

Db 901 TAGTGATATAATGCTGCTCATGCTGATATTTGCTAGTTATGATTTAAGCATTTTGTAGAAATA 960
 Qy 961 AGATCAGGCATATGATATATTTTACACCTTCAAGACCTTAAGGAAAAATAAATTTTCCA 1020
 Db 961 AGATCAGGCATATGATATATTTTACACCTTCAAGACCTTAAGGAAAAATAAATTTTCCA 1020
 Qy 1021 GTGGAGAAATACATATATATGTTGTTAGAAATCATTTGAAATGGATCCTTTTGTGACGATCA 1080
 Db 1021 GTGGAGAAATACATATATATGTTGTTAGAAATCATTTGAAATGGATCCTTTTGTGACGATCA 1080
 Qy 1081 CTTATATCACTCTGATATGACTAAGTAAACAAAGTGAGAGTAATTTATGTAATGGA 1140
 Db 1081 CTTATATCACTCTGATATGACTAAGTAAACAAAGTGAGAGTAATTTATGTAATGGA 1140
 Qy 1141 TGGATAAAATGAAATTTACTCATATACAGGGTGAATTTTATCTGTTATCAACCAACA 1200
 Db 1141 TGGATAAAATGAAATTTACTCATATACAGGGTGAATTTTATCTGTTATCAACCAACA 1200
 Qy 1201 GTTGATTTATATATTTTCTGAATATCAGCCCTTAATAGGACAAATTTCTATTGTTGACCAAT 1260
 Db 1201 GTTGATTTATATATTTTCTGAATATCAGCCCTTAATAGGACAAATTTCTATTGTTGACCAAT 1260
 Qy 1261 TCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAAGTAATAATCAATCTCTTTT 1320
 Db 1261 TCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAAGTAATAATCAATCTCTTTT 1320
 Qy 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
 Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 4

AAS21484

ID AAS21484 standard; cDNA; 1346 BP.

XX AC AAS21484;

XX DT 24-OCT-2001 (first entry)

XX DE Human cDNA sequence encoding for PRO1312 polypeptide.

XX KW Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
 KW prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
 KW ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
 KW A-peptide; factor VIIA; gene therapy; ss.
 XX OS Homo sapiens.
 XX PN WO200140466-A2.
 XX PD 07-JUN-2001.

XX PF 01-DEC-2000; 2000WO-US032678.

XX PR 01-DEC-1999; 99WO-US028301.

XX PR 01-DEC-1999; 99WO-US028634.

XX PR 02-DEC-1999; 99WO-US028551.

XX PR 02-DEC-1999; 99WO-US028564.

XX PR 02-DEC-1999; 99WO-US028565.

XX PR 03-DEC-1999; 99US-0170262P.

XX PR 16-DEC-1999; 99WO-US030095.

XX PR 20-DEC-1999; 99WO-US030911.

XX PR 20-DEC-1999; 99WO-US030999.

XX PR 30-DEC-1999; 99WO-US031243.

XX PR 30-DEC-1999; 99WO-US031274.

XX PR 03-JAN-2000; 2000WO-US000219.

XX PR 06-JAN-2000; 2000WO-US000277.

XX PR 11-FEB-2000; 2000WO-US000376.

XX PR 18-FEB-2000; 2000WO-US000431.

XX PR 18-FEB-2000; 2000WO-US000432.

XX PR 22-FEB-2000; 2000WO-US000414.

PR 24-FEB-2000; 2000WO-US004914.
 PR 01-FEB-2000; 2000WO-US005004.
 PR 01-MAR-2000; 2000WO-US005601.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 03-MAR-2000; 2000US-0187202P.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 17-MAY-2000; 2000WO-US011705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 05-JUN-2000; 2000US-0209832P.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 10-NOV-2000; 2000WO-US030873.
 XX (GETH) GENENTECH INC.

XX Baker KP, Bersini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen MB, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX WPI: 2001-408281/43.
 DR P-PSDB; AAU12412.

XX Isolated , secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing PRO
 PT polypeptides, and detect the presence of mammalian tumors e.g. lung,
 PT breast, prostate, cervical.
 XX Claim 3; Fig 481; 813pp; English.

XX AAS21244-AAS21518 encode for novel human secretory and transmembrane PRO
 CC polypeptides. The PRO polypeptides are useful to detect other PRO
 CC polypeptides, to link bioactive molecules to cells expressing PRO
 CC polypeptides, to modulate biological activities of cells expressing PRO
 CC polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample. Some
 CC polypeptide sequences are also useful to stimulate the release of tumour
 CC necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or
 CC differentiation of chondrocytes, the proliferation or gene expression in
 CC pericyte cells, the release of proteoglycans from cartilage, the
 CC proliferation of inner ear utricular supporting cells or of T-
 CC lymphocytes, the release of a cytokine from peripheral blood monocytes
 CC (PBMCs), or the proliferation of endothelial cells. Some of the PRO
 CC polypeptides may modulate glucose or free fatty acid uptake by skeletal
 CC muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
 CC VIIA. The PRO polypeptides can be used in assays to identify molecules
 CC involved in binding interactions. The polynucleotides encoding PRO
 CC polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy
 XX SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Query Match 100.0%; Score 1346; DB 4; Length 1346;
 Best Local Similarity 100.0%; Pred. No. 1.6e-262;
 Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGAAATGTTGGCTGCTCTTTTCTGCTGACTGCCATTGCTGAACTCTGTCAA 60
 Db 1 GAAAGAAATGTTGGCTGCTCTTTTCTGCTGACTGCCATTGCTGAACTCTGTCAA 60

Qy 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGACAGCTCTGGGAGATAA 120
 Db 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGACAGCTCTGGGAGATAA 120

XX PS Claim 2; Fig 277; 935pp; English.

CC The present invention describes human secreted and transmembrane PRO proteins. The PRO proteins have cytostatic activity. The PRO proteins can be used for targeted delivery of bioactive molecules, such as toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide sequences, and their fragments, can be used as hybridisation probes, in chromosome and gene mapping, and in the generation of anti-sense RNA and DNA. They may also be used to produce transgenic animals which are used to develop and screen therapeutically useful reagents. The PRO nucleotide and protein sequence can be used for tissue typing and in treating cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to AAF44470 represent PCR primers and hybridisation probes used in the isolation of human PRO sequences. AAF44087 to AAF44269 and AAF65154 to AAF65300 represent human PRO polynucleotide and protein sequences given in the exemplification of the present invention

XX SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Query Match 100.0%; Score 1346; DB 5; Length 1346;
 Best Local Similarity 100.0%; Pred. No. 1.6e-262;
 Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAAGATGTTGGCTGCTCTTTTCTGGTACGTCATTCATGCTGAACCTGTCAA 60
 DB 1 GAAAGATGTTGGCTGCTCTTTTCTGGTACGTCATTCATGCTGAACCTGTCAA 60

QY 61 CCAGGTGCGAATAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGATAAA 120
 DB 61 CCAGGTGCGAATAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGATAAA 120

QY 121 GCATATGCTCGGATACCAATCAAGAAATACCTCTTCAAGAGCATGGTACTTTCTCCATG 180
 DB 121 GCATATGCTCGGATACCAATCAAGAAATACCTCTTCAAGAGCATGGTACTTTCTCCATG 180

QY 181 AGAAAGTTTCCACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 240
 DB 181 AGAAAGTTTCCACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 240

QY 241 CAGAGGTATCATCTCTGTTTCTGGTTTACAGACCTTCAAAATACAGACCTCTCGTCT 300
 DB 241 CAGAGGTATCATCTCTGTTTCTGGTTTACAGACCTTCAAAATACAGACCTCTCGTCT 300

QY 301 GTTGAGTGCATTCAGCCATAGAAATGAACAGAACCCGGATCAACATGCTTCTTTCTA 360
 DB 301 GTTGAGTGCATTCAGCCATAGAAATGAACAGAACCCGGATCAACATGCTTCTTTCTA 360

QY 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCAACCCATGGACCA 420
 DB 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCAACCCATGGACCA 420

QY 421 TCTGTGCCATCTGGAATTTATATTTTGGTGTGATATTTTGGTATCATCATCTGCAAT 480
 DB 421 TCTGTGCCATCTGGAATTTATATTTTGGTGTGATATTTTGGTATCATCATCTGCAAT 480

QY 481 GCACACTACTGATTTATCAGGATCTGGCAACGCTAGAGAAAGAAACAAAGAACCATCTGAA 540
 DB 481 GCACACTACTGATTTATCAGGATCTGGCAACGCTAGAGAAAGAAACAAAGAACCATCTGAA 540

QY 541 GTGGATGACGCTGAAGATGTTGAAATCATGATCAATTTGAAATGGCATTCCTCTCT 600
 DB 541 GTGGATGACGCTGAAGATGTTGAAATCATGATCAATTTGAAATGGCATTCCTCTCT 600

QY 601 GATCCCTGACATGAAGGGGGGCATATTAATGATGCTTTCATGACAGAGGATGAGAGC 660
 DB 601 GATCCCTGACATGAAGGGGGGCATATTAATGATGCTTTCATGACAGAGGATGAGAGC 660

QY 661 TCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
 DB 661 TCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720

QY 721 GTGACTGCTGAGCATCTCGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780

DB 721 GTGACTGCTGAGCATCTCGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780

QY 781 CTTTGTGTAATAATTTTGAATGCTTGAAGTGAAGAGCAATCAATTAATACCCCAAC 840
 DB 781 CTTTGTGTAATAATTTTGAATGCTTGAAGTGAAGAGCAATCAATTAATACCCCAAC 840

QY 841 ACCACTGAAATCATAGCTATTTCACGACTCAAAATATTCTAAATATTTTCTGACAGTA 900
 DB 841 ACCACTGAAATCATAGCTATTTCACGACTCAAAATATTCTAAATATTTTCTGACAGTA 900

QY 901 TAGTGTATAATGCTGCTATGCTGATTTGTAGTTATTGATTTAGCAATTTTAGAATA 960
 DB 901 TAGTGTATAATGCTGCTATGCTGATTTGTAGTTATTGATTTAGCAATTTTAGAATA 960

QY 961 AGATCAGGCATATGATATATTTTTCACACTTCAAGAGCCTTAAGGAAAAATAAATTTTCCA 1020
 DB 961 AGATCAGGCATATGATATATTTTTCACACTTCAAGAGCCTTAAGGAAAAATAAATTTTCCA 1020

QY 1021 GTGGAGAAATACATATAATATGCTGTAGAAATCAATTTGAAATGGATCTTTTGTGACATCA 1080
 DB 1021 GTGGAGAAATACATATAATATGCTGTAGAAATCAATTTGAAATGGATCTTTTGTGACATCA 1080

QY 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTTGTAAATGGA 1140
 DB 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTTGTAAATGGA 1140

QY 1141 TGGATAAAAAATGGAATTTACTCATATACAGGGTGGAAATTTTATCTCTGTATACACCAACA 1200
 DB 1141 TGGATAAAAAATGGAATTTACTCATATACAGGGTGGAAATTTTATCTCTGTATACACCAACA 1200

QY 1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGCAATTTCTATTTGTGACAT 1260
 DB 1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGCAATTTCTATTTGTGACAT 1260

QY 1261 TCTCAATTTTGTAAAGTCCAAATCTGTGCTAATCTTAATTAAGTAAATATCATCTCTTTT 1320
 DB 1261 TCTCAATTTTGTAAAGTCCAAATCTGTGCTAATCTTAATTAAGTAAATATCATCTCTTTT 1320

QY 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346
 DB 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 6
 ABX77959
 ID ABX77959 standard; cDNA; 1346 BP.
 XX AC ABX77959;
 XX DT 14-APR-2003 (first entry)
 XX Human PRO polynucleotide #121.
 XX Human; PRO; gene; ss; cytostatic; tumour; cancer; breast; lung; stomach;
 KW liver; horse; cow; dog; cat; sheep; pig; goat; rabbit; ADAPT;
 KW antibody-dependent enzyme mediated prodrug therapy.
 XX OS Homo sapiens.
 XX US2003027163-A1.
 XX 06-FEB-2003.
 XX 15-NOV-2001; 2001US-00997666.
 XX 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US020069.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.

PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088859P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089103P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090335P.
PR 23-JUN-1998; 98US-0090349P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090542P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096881P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.

PR	01-DEC-1999;	99WO-US028301.
PR	01-DEC-1999;	99WO-US028634.
PR	16-DEC-1999;	99WO-US030095.
PR	20-DEC-1999;	99WO-US030911.
PR	05-JAN-2000;	2000WO-US000219.
PR	06-JAN-2000;	2000WO-US000376.
PR	18-FEB-2000;	2000WO-US003565.
PR	18-FEB-2000;	2000WO-US004341.
PR	22-FEB-2000;	2000WO-US004414.
PR	24-FEB-2000;	2000WO-US004914.
PR	02-MAR-2000;	2000WO-US005004.
PR	24-MAR-2000;	2000WO-US005841.
PR	10-MAR-2000;	2000WO-US006319.
PR	15-MAR-2000;	2000WO-US006884.
PR	20-MAR-2000;	2000WO-US007377.
PR	30-MAR-2000;	2000WO-US008439.
PR	15-MAY-2000;	2000WO-US013358.
PR	17-MAY-2000;	2000WO-US013705.
PR	22-MAY-2000;	2000WO-US014042.
PR	30-MAY-2000;	2000WO-US014941.
PR	02-JUN-2000;	2000WO-US015264.
PR	23-JUN-2000;	2000US-0213637P.
PR	28-JUL-2000;	2000WO-US020710.
PR	11-AUG-2000;	2000WO-US022031.
PR	23-AUG-2000;	2000WO-US023522.
PR	24-AUG-2000;	2000WO-US023328.
PR	07-SEP-2000;	2000US-0230978P.
Query Match 100.08; Score 1346; DB 7; Length 1346; Best Local Similarity 100.08; Pred. No. 1.6e-262; Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Qy	1	GAAAGAAATGTTGTGGCTGCTCTTTTTTCTGGTGACTGCCAATTCATGCTGAACCTCTGTGCAA 60
Dd	1	GAAAGAAATGTTGTGGCTGCTCTTTTTTCTGGTGACTGCCAATTCATGCTGAACCTCTGTGCAA 60
Qy	61	CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAAA 120
Dd	61	CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAAA 120
Qy	121	GCATATGCTCGGATACC AANTGAGAATACCTCTTCAAGCGATGGTAGCTTCTCCCATG 180
Dd	121	GCATATGCTCGGATACC AANTGAGAATACCTCTTCAAGCGATGGTAGCTTCTCCCATG 180
Qy	181	AGAAAAAGTTCCCAACAGAGAAGCAACAGAAATPTTCCCATGTCTACTTTTGC AATGTAA CC 240
Dd	181	AGAAAAAGTTCCCAACAGAGAAGCAACAGAAATPTTCCCATGTCTACTTTTGC AATGTAA CC 240
Qy	241	CAGAGGGTATCATTTCTGGTTGTGGTTACAGACCTTCAAAAAATCACACCTTCTGTCT 300
Dd	241	CAGAGGGTATCATTTCTGGTTGTGGTTACAGACCTTCAAAAAATCACACCTTCTGTCT 300
Qy	301	GTTGAGGTGC AATCAGCCATTAAGANTGAACAGAACCCGATCAACAATGCC TTTCTTCTA 360
Dd	301	GTTGAGGTGC AATCAGCCATTAAGANTGAACAGAACCCGATCAACAATGCC TTTCTTCTA 360
Qy	361	AATGACCAAAA CTCTGGAAATTTTAAAAATPCCCTTCCA CACTTGCACCA CCCCATGACCCA 420
Dd	361	AATGACCAAAA CTCTGGAAATTTTAAAAATPCCCTTCCA CACTTGCACCA CCCCATGACCCA 420
Qy	421	TCTGTGCCCATCTGGATTATTATATTTGGTGTGATATTTTGT CATCATATAGTGTGCAATT 480
Dd	421	TCTGTGCCCATCTGGATTATTATATTTGGTGTGATATTTTGT CATCATATAGTGTGCAATT 480
Qy	481	GCACCTACTGATTTTATCAGGANTCTGGCAACGTAGAGAGAGAGAACAAAGAACCATCTGAA 540
Dd	481	GCACCTACTGATTTTATCAGGANTCTGGCAACGTAGAGAGAGAGAACAAAGAACCATCTGAA 540
Qy	541	GTGGATGACGCTGGAAGATAAGTGTCAAAACATGATCA CAATTTGAAAAATGGCATCCCTCT 600
Dd	541	GTGGATGACGCTGGAAGATAAGTGTGAAAACATGATC R CAATTTGAAAAATGGCATCCCTCT 600
Qy	601	GATCCCCCTGGACATGAAGGGGGGCA TATTTAATGATGSCCTTTCATGACAGAGGATGAGAGC 660

OS Homo sapiens.
XX US2002132252-A1.
XX 19-SEP-2002.
XX 14-NOV-2001; 2001US-00990442.
XX 16-JUN-1997; 97US-0049787P.
XX 17-OCT-1997; 97US-0062250P.
XX 05-NOV-1997; 97WO-US020069.
XX 12-NOV-1997; 97US-0065186P.
XX 13-NOV-1997; 97US-0065311P.
XX 24-NOV-1997; 97US-0066770P.
XX 25-FEB-1998; 98US-0075945P.
XX 20-MAR-1998; 98US-0078910P.
XX 28-APR-1998; 98US-0083322P.
XX 07-MAY-1998; 98US-0084600P.
XX 28-MAY-1998; 98US-0087106P.
XX 02-JUN-1998; 98US-0087607P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
XX 03-JUN-1998; 98US-0087827P.
XX 04-JUN-1998; 98US-0088021P.
XX 04-JUN-1998; 98US-0088025P.
XX 04-JUN-1998; 98US-0088028P.
XX 04-JUN-1998; 98US-0088026P.
XX 04-JUN-1998; 98US-0088029P.
XX 04-JUN-1998; 98US-0088030P.
XX 04-JUN-1998; 98US-0088033P.
XX 04-JUN-1998; 98US-0088326P.
XX 05-JUN-1998; 98US-0088167P.
XX 05-JUN-1998; 98US-0088202P.
XX 05-JUN-1998; 98US-0088212P.
XX 05-JUN-1998; 98US-0088217P.
XX 09-JUN-1998; 98US-0088655P.
XX 10-JUN-1998; 98US-0088734P.
XX 10-JUN-1998; 98US-0088738P.
XX 10-JUN-1998; 98US-0088742P.
XX 10-JUN-1998; 98US-0088810P.
XX 10-JUN-1998; 98US-0088824P.
XX 10-JUN-1998; 98US-0088826P.
XX 11-JUN-1998; 98US-0088858P.
XX 11-JUN-1998; 98US-0088861P.
XX 11-JUN-1998; 98US-0088876P.
XX 12-JUN-1998; 98US-0089105P.
XX 16-JUN-1998; 98US-0089440P.
XX 16-JUN-1998; 98US-0089512P.
XX 16-JUN-1998; 98US-0089514P.
XX 17-JUN-1998; 98US-0089532P.
XX 17-JUN-1998; 98US-0089538P.
XX 17-JUN-1998; 98US-0089598P.
XX 17-JUN-1998; 98US-0089599P.
XX 17-JUN-1998; 98US-0089600P.
XX 17-JUN-1998; 98US-0089653P.
XX 18-JUN-1998; 98US-0089801P.
XX 18-JUN-1998; 98US-0089907P.
XX 18-JUN-1998; 98US-0089908P.
XX 16-SEP-1998; 98WO-US019330.
XX 17-SEP-1998; 98WO-US019437.
XX 07-OCT-1998; 98WO-US021141.
XX 01-DEC-1998; 98WO-US025108.
XX 05-JAN-1999; 99WO-US000106.
XX 08-MAR-1999; 99WO-US005028.
XX 02-JUN-1999; 99WO-US012252.
XX 15-SEP-1999; 99WO-US021090.
XX 15-SEP-1999; 99WO-US021547.
XX 30-NOV-1999; 99WO-US028313.
XX 01-DEC-1999; 99WO-US028301.
XX 01-DEC-1999; 99WO-US028634.
XX 16-DEC-1999; 99WO-US030095.
XX 20-DEC-1999; 99WO-US030911.
XX 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX (GETH) GENENTECH INC.
PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Grittisen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX WPI; 2003-247083/24.
DR P-PSDB; ABUS9168.
XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
PT are therapeutically useful for enhancing immune response and in cancer
PT treatments.
XX Claim 2; Fig 279; 648pp; English.
XX The invention describes an isolated human PRO polypeptide. The PRO
CC polypeptides are useful in detecting PRO polypeptides in a sample, in
CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
CC in modulating at least one biological activity of a cell expressing a PRO
CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
CC PRO943, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
CC useful for treating conditions or disorders where angiogenesis would be
CC beneficial, e.g. wound healing and antagonist of this polypeptide are
CC useful for treating cancerous tumours. PRO812 inhibits vascular
CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC cells and is thus useful for inhibiting endothelial cell growth in
CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO826, PRO1068 or PRO1132 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
CC and PRO11066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the

PR	02-MAR-2000;	2000WO-US005841.	
PR	10-MAR-2000;	2000WO-US006319.	
PR	15-MAR-2000;	2000WO-US006884.	
PR	20-MAR-2000;	2000WO-US007377.	
PR	30-MAR-2000;	2000WO-US008439.	
PR	15-MAY-2000;	2000WO-US013358.	
PR	17-MAY-2000;	2000WO-US013705.	
PR	22-MAY-2000;	2000WO-US014042.	
PR	30-MAY-2000;	2000WO-US014941.	
PR	02-JUN-2000;	2000WO-US015264.	
PR	23-JUN-2000;	2000US-0213637P.	
PR	28-JUL-2000;	2000WO-US020710.	
PR	11-AUG-2000;	2000WO-US022031.	
Query Match 100.0%; Score 1346; DB 7; Length 1346;			
Best Local Similarity 100.0%; Pred. No. 1.6e-262;			
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1	GAAGAATGTTGGCTGCTCTTTTCTGGTGACCTGCAATTCATGCTCAACTCTGTCAA	60
DB	1	GAAGAATGTTGGCTGCTCTTTTCTGGTGACCTGCAATTCATGCTCAACTCTGTCAA	60
QY	61	CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTTAGTATCAGAACAGCTCTGGGAGATAA	120
DB	61	CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTTAGTATCAGAACAGCTCTGGGAGATAA	120
QY	121	GCATATGCTCGGATACCAATGAAGTAATACCTCTTCAAGCGATGGTAGCTTTCTCCATG	180
DB	121	GCATATGCTCGGATACCAATGAAGTAATACCTCTTCAAGCGATGGTAGCTTTCTCCATG	180
QY	181	AGAAAAGTCCCAACGAGAACGACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC	240
DB	181	AGAAAAGTCCCAACGAGAACGACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC	240
QY	241	CAGAGGTATCATCTCTGTTGTTGTTGTTACAGACCTCTCAAAAATCACAACCTTCTCTGCT	300
DB	241	CAGAGGTATCATCTCTGTTGTTGTTGTTACAGACCTCTCAAAAATCACAACCTTCTCTGCT	300
QY	301	GTGAGGTCAATTCAGCCATAGAATGAAACAAGAACCGGATCAACAAATGCTTTCTTA	360
DB	301	GTGAGGTCAATTCAGCCATAGAATGAAACAAGAACCGGATCAACAAATGCTTTCTTA	360
QY	361	AATGACCAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCATGGACCCA	420
DB	361	AATGACCAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCATGGACCCA	420
QY	421	TCGTGCCCATCTGGATTTATTTTGGTGATATTTTGGTATCATCATAGTTGCAAT	480
DB	421	TCGTGCCCATCTGGATTTATTTTGGTGATATTTTGGTATCATCATAGTTGCAAT	480
QY	481	GCACACTGATTTTATCAGGGATCTGGCAACCTGAGAGAAAGAACCAAGAACCATCTGAA	540
DB	481	GCACACTGATTTTATCAGGGATCTGGCAACCTGAGAGAAAGAACCAAGAACCATCTGAA	540
QY	541	GTGGATGACCTGAGATTAAGTGTGAACATGATCAATTTGAATGGCATCCCTCT	600
DB	541	GTGGATGACCTGAGATTAAGTGTGAACATGATCAATTTGAATGGCATCCCTCT	600
QY	601	GATCCCTCGACATGAAGGGGGCATATTTAATGATGCTTTCATGACAGAGGATGAGAGC	660
DB	601	GATCCCTCGACATGAAGGGGGCATATTTAATGATGCTTTCATGACAGAGGATGAGAGC	660
QY	661	TCACCCCTCTCTGAAGGGCTGTGTTCTCTCTCAAGAAATTAACATTTGTTCTCT	720
DB	661	TCACCCCTCTCTGAAGGGCTGTGTTCTCTCTCAAGAAATTAACATTTGTTCTCT	720
QY	721	GTGATGCTGAGCATCTGAAATACCAAGCGCATCATATTTTGGTTTCAACATCTT	780
DB	721	GTGATGCTGAGCATCTGAAATACCAAGCGCATCATATTTTGGTTTCAACATCTT	780
QY	781	CTTTTGTGTAATTTTGAATGCTTGAAGGTGAAGAACCAATCAATTTATACCCACAC	840
DB	781	CTTTTGTGTAATTTTGAATGCTTGAAGGTGAAGAACCAATCAATTTATACCCACAC	840

QY	841	ACCACTGAAATCATAGCTATTTCAAGCTCAAAATATTTCTAAATATTTTCTGACAGTA	900
DB	841	ACCACTGAAATCATAGCTATTTCAAGCTCAAAATATTTCTAAATATTTTCTGACAGTA	900
QY	901	TAGTGTATAAATGCTGCTCATGTTGTTAGTATTTAGTATTTAGCAATTTTGAATAA	960
DB	901	TAGTGTATAAATGCTGCTCATGTTGTTAGTATTTAGTATTTAGCAATTTTGAATAA	960
QY	961	AGATCAGGCATATGATATATTTTTCACCTTCAAGACCTTAAGGAAATAAATTTTCCA	1020
DB	961	AGATCAGGCATATGATATATTTTTCACCTTCAAGACCTTAAGGAAATAAATTTTCCA	1020
QY	1021	GTGGAGATACATATATATGTTGTAGAAATCATTTGAAATGGATCCTTTTTCACGATCA	1080
DB	1021	GTGGAGATACATATATATGTTGTAGAAATCATTTGAAATGGATCCTTTTTCACGATCA	1080
QY	1081	CTTATATCACTCTGTATATGACTTAAGTAAACAAAGTGAGAGTAATTTATTTAAATGGA	1140
DB	1081	CTTATATCACTCTGTATATGACTTAAGTAAACAAAGTGAGAGTAATTTATTTAAATGGA	1140
QY	1141	TGGATAAAATGGAATTTACTCATATACAGGGTGGAAATTTTATCTGTATCACACCAACA	1200
DB	1141	TGGATAAAATGGAATTTACTCATATACAGGGTGGAAATTTTATCTGTATCACACCAACA	1200
QY	1201	GTGATTTATATATTTTCTGAATATCAGCCCTTAATAGGACAATTTCTATTGTTGACCAAT	1260
DB	1201	GTGATTTATATATTTTCTGAATATCAGCCCTTAATAGGACAATTTCTATTGTTGACCAAT	1260
QY	1261	TCTCAATTTTGTAAAGTCCCAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT	1320
DB	1261	TCTCAATTTTGTAAAGTCCCAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT	1320
QY	1321	AAAAAAAAAAAAAAAAAAAAAAAAA	1346
DB	1321	AAAAAAAAAAAAAAAAAAAAAAAAA	1346

RESULT 9
ACD24093

ID ACD24093 standard; cdna; 1346 BP.

XX ACD24093;

XX 26-AUG-2003 (first entry)

XX Novel human secreted and transmembrane protein PRO1312 cDNA.

Human; secreted and transmembrane protein; PRO; antiinflammatory; antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic; antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release; TNF-alpha release; cell proliferation; cell differentiation; gene expression modulator; proteoglycan release; cytokine release; tumour; inflammatory disease; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; acquired immunodeficiency syndrome; cancer; diabetic complication; chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor; tissue typing; gene; ss.

OS Homo sapiens.

XX US2003032156-A1.

XX 13-FEB-2003.

XX 06-MAY-2002; 2002US-00140474.

XX 31-MAR-1997; 97WO-US005230.

PR 12-JUN-1998; 98WO-US012456.

PR 14-JUL-1998; 98WO-US014552.

PR 28-AUG-1998; 98WO-US017888.

PR 10-SEP-1998; 98WO-US018824.

PR 14-SEP-1998; 98WO-US019093.

PR 14-SEP-1998; 98WO-US019094.
PR 16-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024B55.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 98WO-US005028.
PR 10-MAR-1999; 98WO-US005190.
PR 20-APR-1999; 98WO-US008615.
PR 14-MAY-1999; 98WO-US010733.
PR 02-JUN-1999; 98WO-US012252.
PR 01-SEP-1999; 98WO-US020111.
PR 08-SEP-1999; 98WO-US020594.
PR 13-SEP-1999; 98WO-US020944.
PR 15-SEP-1999; 98WO-US021090.
PR 15-SEP-1999; 98WO-US021547.
PR 05-OCT-1999; 98WO-US023089.
PR 29-NOV-1999; 98WO-US028214.
PR 30-NOV-1999; 98WO-US028313.
PR 30-NOV-1999; 98WO-US028409.
PR 01-DEC-1999; 98WO-US028401.
PR 01-DEC-1999; 98WO-US028634.
PR 02-DEC-1999; 98WO-US028551.
PR 02-DEC-1999; 98WO-US028564.
PR 02-DEC-1999; 98WO-US028565.
PR 16-DEC-1999; 98WO-US030095.
PR 20-DEC-1999; 98WO-US030911.
PR 20-DEC-1999; 98WO-US030999.
PR 22-DEC-1999; 98WO-US030720.
PR 30-DEC-1999; 98WO-US031243.
PR 30-DEC-1999; 98WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US0003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.

PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 21-MAY-2001; 2001US-00866034.
PR 21-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUL-2001; 2001WO-US021066.
PR 03-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.

XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI: 2003-341980/32.
DR P-PSDB; ABO17856.
DR
XX
PT New secreted and transmembrane PRO nucleic acids, for treating
PT inflammation, organ failure, atherosclerosis, cardiac injury,
PT infertility, birth defects, premature aging, acquired immunodeficiency
PT syndrome (AIDS), or cancer.
XX
PS Claim 2; Fig 481; 660pp; English.
XX

The invention describes an isolated nucleic acid (I) comprising, or which has 80 % sequence identity to, or the full-length coding sequence of, one of 275 nucleotide sequences, and which encodes a corresponding polypeptide selected from 275 amino acid sequences, where all sequences are given in the specification. The polypeptide encoded by (I) is used to detect PRO polypeptides, link a bioactive molecule to a cell expressing a PRO polypeptide, modulate a biological activity of a cell, stimulate the release of tumour necrosis factor (TNF)-alpha from human blood, modulate the uptake of glucose or free fatty acid by cells, stimulate or inhibit the proliferation or differentiation of cells or gene expression, cytokine stimulate the release of proteoglycans, stimulate the release of A-peptide from peripheral blood mononuclear cells, inhibit the binding of A-peptide to factor VIIA, or detect the presence of tumour in a mammal. The nucleic acid and polypeptide encoded by it, are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, acquired immunodeficiency syndrome (AIDS), cancer, or diabetic complications. The nucleic acid is useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. This sequence encodes a novel human secreted and transmembrane PRO polypeptide

Query Match 100.0%; Score 1346; DB 7; Length 1346;
Best Local Similarity 100.0%; Pred No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAGAAGATGTGGCTGCTCTTTTTCGTGGACATGCCATTCAATCGTAACCTGTCAA 60
| | | | |
Db 1 GAAGAAGATGTGGCTGCTCTTTTTCGTGGACATGCCATTCAATCGTAACCTGTCAA 60
| | | | |

QY 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTAGTCAAGACAGCTCTGGGAGATAA 120
| | | | |
Db 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTAGTCAAGACAGCTCTGGGAGATAA 120
| | | | |

121 GCATATGCTGGGATACCAATGAGAAATACCTCTTCAAGCGATGGTAGCTTTCTCCATG 180
121 GCATATGCTGGGATACCAATGAGAAATACCTCTTCAAGCGATGGTAGCTTTCTCCATG 180
181 AGAAAAGTTCCCAACAGAGAGCAACAGAAAATTTCCCATGTCCTACTTTGCAATGTAACC 240
181 AGAAAAGTTCCCAACAGAGAGCAACAGAAAATTTCCCATGTCCTACTTTGCAATGTAACC 240
241 CAGAGGATATCATCTCGTTTGTGTTACAGACCTTTCAAAAATTCACACCCCTTCTGCT 300
241 CAGAGGATATCATCTCGTTTGTGTTACAGACCTTTCAAAAATTCACACCCCTTCTGCT 300
301 GTTAGGTCGAATCAGCCCAATAGAAATGAACAGAACCGGATCAACAATGCTTCTTTCTA 360
301 GTTAGGTCGAATCAGCCCAATAGAAATGAACAGAACCGGATCAACAATGCTTCTTTCTA 360
361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCCCAATGACCCA 420
361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCCCAATGACCCA 420
421 TCTGTGCCCATCTGGATTAATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
421 TCTGTGCCCATCTGGATTAATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
481 GCATCTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCTCTGAA 540
481 GCATCTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCTCTGAA 540
541 GTGGATGCGCTGAGATGAAGTGTGAACAATGATCACAATTTGAAATGGCATCCCTCT 600
541 GTGGATGCGCTGAGATGAAGTGTGAACAATGATCACAATTTGAAATGGCATCCCTCT 600
601 GATCCCTGGCATGAAGGGGGGCATTAATATGATGCTTTCATGACAGAGATGAGAGC 660
601 GATCCCTGGCATGAAGGGGGGCATTAATATGATGCTTTCATGACAGAGATGAGAGC 660
661 TCACCCCTCTGAGGGCTGTGTTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
661 TCACCCCTCTGAGGGCTGTGTTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
721 GTGACTGCTGACATCTGAATAACAGAGAGATCATATATTTGTTTCCACCATCTT 780
721 GTGACTGCTGACATCTGAATAACAGAGAGATCATATATTTGTTTCCACCATCTT 780
781 CTTTGTGTAATAATTTGAATGTGCTTGAAGTGAAGCAATCAATTAACCCCAAC 840
781 CTTTGTGTAATAATTTGAATGTGCTTGAAGTGAAGCAATCAATTAACCCCAAC 840
841 ACCACTGAAATCATAAGCTATTCAAGACTCAAAATTTCTAAATATTTTCTGACAGTA 900
841 ACCACTGAAATCATAAGCTATTCAAGACTCAAAATTTCTAAATATTTTCTGACAGTA 900
901 TAGTGTATAAATGTGTCATGTGTTATTTGATGTTATTCATTTAAGCATTTTGAATAA 960
901 TAGTGTATAAATGTGTCATGTGTTATTTGATGTTATTCATTTAAGCATTTTGAATAA 960
961 AGATCAGGCATATGATATATTTTCACTTCAAGACCTTAAGGAAAAATAAATTTTCCA 1020
961 AGATCAGGCATATGATATATTTTCACTTCAAGACCTTAAGGAAAAATAAATTTTCCA 1020
1021 GTGGAGAATACATATAATATGTTGATAGAAATCAATGAAAATGATCTTTTTCAGCATCA 1080
1021 GTGGAGAATACATATAATATGTTGATAGAAATCAATGAAAATGATCTTTTTCAGCATCA 1080
1081 CTTATATCACTCTGATATAGACTAAGTAAACAAAGTGAGAGTAATTTGTAATGGA 1140
1081 CTTATATCACTCTGATATAGACTAAGTAAACAAAGTGAGAGTAATTTGTAATGGA 1140
1141 TGGATAAAATGGAATTAATCTCATATACAGGGTGGAAATTTTATCTGTTATCACCAACA 1200
1141 TGGATAAAATGGAATTAATCTCATATACAGGGTGGAAATTTTATCTGTTATCACCAACA 1200

1201 GTTGATATATATTTTCTGAATATCAGCCCTAATAGGCAATTTCTATTTGTTGACCAAT 1260
1201 GTTGATATATATTTTCTGAATATCAGCCCTAATAGGCAATTTCTATTTGTTGACCAAT 1260
1261 TCTACAATTTGTAAAGTCCAAATCTGTGCTAACTTAAATAAGTAATAATCATCTCTTTT 1320
1261 TCTACAATTTGTAAAGTCCAAATCTGTGCTAACTTAAATAAGTAATAATCATCTCTTTT 1320
1321 AAAAAAAAAAAAAAAAAAAAAAAAAA 1346
1321 AAAAAAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 10
ABX90348
ID ABX90348 standard; cDNA; 1346 BP.
XX
AC ABX90348;
XX
DT 01-MAY-2003 (first entry)
XX
DE Human secreted/transmembrane protein cDNA, #157.
XX
KW Human; gene; ss; PRO; secreted; transmembrane; signal peptide;
KW pharmaceutical; diagnostic; therapeutic; gene therapy.
XX
OS Homo sapiens.
XX
PN US2002160384-A1.
XX
PD 31-OCT-2002.
XX
PF 14-NOV-2001; 2001US-00992598.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97MO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.

PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 18-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.

(GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;

XX WPI: 2003-288106/28.
XX P-PSDB; ABU60598.

XX New transmembrane polypeptides and nucleic acids encoding the
PT polypeptides, useful in gene therapy, in chromosome identification, as
PT chromosome markers, or in generating probes.

XX Claim 2; Fig 277; 650pp; English.

XX The invention discloses isolated PRO secreted/transmembrane polypeptides

CC comprising a sequence without signal peptide and the nucleic acid
CC encoding them. The polypeptides can be used to raise antibodies that
CC specifically bind to the PRO polypeptide, for linking a bioactive
CC molecule to a cell expressing a PRO protein and for modulating at least
CC one biological activity of a cell. The PRO polypeptides or
CC polynucleotides are also useful in gene therapy, in chromosome
CC identification, as chromosome markers, or in generating probes. The PRO
CC polypeptides are useful as molecular markers for protein electrophoresis,
CC and the isolated nucleic acids may be used for recombinantly expressing
CC those markers. The PRO polypeptides and nucleic acids may also be used in
CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for
CC PRO, and in affinity purification of PRO from recombinant cell culture or
CC natural sources. The sequences presented in ABX90883-ABX90468 are the
CC genes encoding, the primers amplifying and the probes detecting the PRO
CC polynucleotides of the invention. Note: The sequence data for this patent
CC is also available in electronic format from USPTO at
CC seqdata.uspto.gov/sequence.html

XX SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Query Match 100.0%; Score 1346; DB 7; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGAAATGTTGGCTGCTCTTTTCTGAGTCCATTTCATGCTGAACTCTGTCAA 60
Db 1 GAAAGAAATGTTGGCTGCTCTTTTCTGAGTCCATTTCATGCTGAACTCTGTCAA 60
Qy 61 CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAA 120
Db 61 CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAA 120
Qy 121 GCATATGCTGGGATACCAATGAAAGAATACTCTTCAAAGCGATGGTAGCTTCTCCATG 180
Db 121 GCATATGCTGGGATACCAATGAAAGAATACTCTTCAAAGCGATGGTAGCTTCTCCATG 180
Qy 181 AGAAAAGTTCCTCAACAGAGAGCAACAGAAATTTCCCATGCTCTTGGCATGTAACC 240
Db 181 AGAAAAGTTCCTCAACAGAGAGCAACAGAAATTTCCCATGCTCTTGGCATGTAACC 240
Qy 241 CAGAGGGTATCATTTCTGGTTGCTTACAGACCTTCAAAGAAATTCCTACTTTGCAATGTAAC 300
Db 241 CAGAGGGTATCATTTCTGGTTGCTTACAGACCTTCAAAGAAATTCCTACTTTGCAATGTAAC 300
Qy 301 GTTGAGGTGCAATCAGCCATAAGAAATGAACAAAGACCGGATCAACAATGCTTTCTTA 360
Db 301 GTTGAGGTGCAATCAGCCATAAGAAATGAACAAAGACCGGATCAACAATGCTTTCTTA 360
Qy 361 AATGACCAAACTCTGGAATTTTAAATTCCTTCCACACTTGGACACCCATGGAACCA 420
Db 361 AATGACCAAACTCTGGAATTTTAAATTCCTTCCACACTTGGACACCCATGGAACCA 420
Qy 421 TCTGTGCCATCTGGATTTATATATTTGGTGATATTTTGCATCATATAGTTGCAATT 480
Db 421 TCTGTGCCATCTGGATTTATATATTTGGTGATATTTTGCATCATATAGTTGCAATT 480
Qy 481 GCATCTACTGATTTTATCAGGGATCTGGCAACGTTAGAGAAAGAAACAAAGAACCATCTGAA 540
Db 481 GCATCTACTGATTTTATCAGGGATCTGGCAACGTTAGAGAGAAAGAAACAAAGAACCATCTGAA 540
Qy 541 GTGATGACGCTGAAGATAGTGTGAAGAAACATGATCACAATTTGAAATGGCATCCCTCT 600
Db 541 GTGATGACGCTGAAGATAGTGTGAAGAAACATGATCACAATTTGAAATGGCATCCCTCT 600
Qy 601 GATCCCTGACATGAAGGGGGCATATTAATGATGCTTCAATGACAGAGGATGAGAGC 660
Db 601 GATCCCTGACATGAAGGGGGCATATTAATGATGCTTCAATGACAGAGGATGAGAGC 660
Qy 661 TCACCCCTCTCTGAAGGGGCTGTTGTTCTGCTTCTCAAGAAATTAACAATTGTTTCTGT 720
Db 661 TCACCCCTCTCTGAAGGGGCTGTTGTTCTGCTTCTCAAGAAATTAACAATTGTTTCTGT 720
Qy 721 GTGACTGCTGAGCATCTCGAAATACCAAGAGCAGATCATATATTTGTTTGCACATCTT 780

```
Db 721 |||||GTGACTGCTGAGCATCTCTGAATATCCAGAGCAGATCATATATTTGTTTCCACCTTCTT 780
Qy 781 CTTTGTGTAATAATTTGAATGCTTGAAGTGGAAGAGCAATCAATATATACCCCAAC 840
Db 781 CTTTGTGTAATAATTTGAATGCTTGAAGTGGAAGAGCAATCAATATATACCCCAAC 840
Qy 841 ACCACTGAATCATAGCTATTTCAGACTCAAAATATTTCTGACAGTA 900
Db 841 ACCACTGAATCATAGCTATTTCAGACTCAAAATATTTCTGACAGTA 900
Qy 901 TAGTGTATAAATGCTGATGCTGATGTTGTTAGTATTGATTTAAGCATTTTGAATA 960
Db 901 TAGTGTATAAATGCTGATGCTGATGTTGTTAGTATTGATTTAAGCATTTTGAATA 960
Qy 961 AGATCAGGATATGATATATTTTTCACACTTCAAGACCTTAAGGAAATAATAATTTTCA 1020
Db 961 AGATCAGGATATGATATATTTTTCACACTTCAAGACCTTAAGGAAATAATAATTTTCA 1020
Qy 1021 GTGGAGATACATATAATATGCTGTAGAAATCAATGAAATGATCCTTTTGGACATCA 1080
Db 1021 GTGGAGATACATATAATATGCTGTAGAAATCAATGAAATGATCCTTTTGGACATCA 1080
Qy 1081 CTTATATCACTCTGATATGACTTAAGTAAACAAAGTGGAAGTAAATTTGTAATGGA 1140
Db 1081 CTTATATCACTCTGATATGACTTAAGTAAACAAAGTGGAAGTAAATTTGTAATGGA 1140
Qy 1141 TGGATAAATAAGTAAATGCTCATATACAGGTTGGAATTTTCTGTTATCACCAACA 1200
Db 1141 TGGATAAATAAGTAAATGCTCATATACAGGTTGGAATTTTCTGTTATCACCAACA 1200
Qy 1201 GTTGTATATATATTTTCTGAATATCAGCCCTTAATAGGACAAATCTATTTGTTGACCA 1260
Db 1201 GTTGTATATATATTTTCTGAATATCAGCCCTTAATAGGACAAATCTATTTGTTGACCA 1260
Qy 1261 TCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAGTAAATCAATCTCTTTT 1320
Db 1261 TCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAGTAAATCAATCTCTTTT 1320
Qy 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 11
ABX64194
ID ABX64194 standard; cDNA; 1346 BP.
XX AC ABX64194;
XX DT 26-FEB-2003 (first entry)
XX XX cDNA encoding human PRO1312 polypeptide.
XX XX Human; PRO polypeptide; secreted protein; transmembrane protein;
KW genetic disorder; antibacterial; immunosuppressive; transgenic;
KW gene therapy; gene; ss.
XX OS Homo sapiens.
XX XX US2002103125-A1.
XX PD 01-AUG-2002.
XX PF 20-NOV-2001; 2001US-00989731.
XX PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
```

```
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 24-FEB-2000; 2000WO-US005841.
PR 02-MAR-2000; 2000WO-US006319.
PR 10-MAR-2000; 2000WO-US006884.
PR 15-MAR-2000; 2000WO-US007377.
PR 20-MAR-2000; 2000WO-US008439.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
```

PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX (GETH) GENENTECH LTD.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kliavin IJ, Napier MA, Pan J, Paoni NP;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
DR WPI; 2003-102117/09.
DR P-PSDB; ABU13980.
XX
XX Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers.
XX
XX Claim 2; Fig 277; 649pp; English.
XX
CC The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides are useful for detecting other PRO polypeptides, for linking
CC bioactive molecules to cells expressing PRO polypeptides, for modulating
CC biological activities of cells expressing PRO polypeptides, and for
CC identifying agonists or antagonists. The polynucleotide sequences
CC encoding PRO polypeptides are useful as hybridisation probes, in
CC chromosome and gene mapping, in the generation of antisense RNA and DNA,
CC in the preparation of PRO polypeptides, for generating transgenic animals
CC or knockout animals, to construct hybridisation probes for mapping the
CC gene which encodes the PRO polypeptide, and for the genetic analysis of
CC individuals with genetic disorders, in gene therapy, for chromosome
CC identification, as chromosome markers, and for generating probes for PCR,
CC Northern analysis, Southern analysis and Western analysis. The present
CC sequence encodes a human PRO polypeptide of the invention. Note: The
CC sequence data for this patent was obtained in electronic format directly
CC from the USPTO web site at seqdata.uspto.gov/psipdIDEntry.html
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;
Query Match 100.0%; Score 1346; DB 7; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAAGAAGTGTGGCTGCTCTTTTCTGGTGAAGTCCCAATTCATGCTGAACCTGTCAA 60
DB 1 GAAGAAGTGTGGCTGCTCTTTTCTGGTGAAGTCCCAATTCATGCTGAACCTGTCAA 60
QY 61 CCAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACGCTCTGGGAGATAA 120
DB 61 CCAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACGCTCTGGGAGATAA 120
QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGGAGTGGTAGCTTTCTCCATG 180
DB 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGGAGTGGTAGCTTTCTCCATG 180
QY 181 AGAAAGTTCCTCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 240
DB 181 AGAAAGTTCCTCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAACC 240
QY 241 CAGAGGGTATCANTCTGTTGTTGTGGTTACAGACCCCTTCAAAAATACACACCTTCCTGCT 300

Db 241 CAGAGGGTATCANTCTGTTGTTGTGGTTACAGACCCCTTCAAAAATACACACCTTCCTGCT 300
QY 301 GTTGAGGTGCATCAGCCCATAGGAACCAAGAACCGGATCAACAATGCTTCTTCTTA 360
DB 301 GTTGAGGTGCATCAGCCCATAGGAACCAAGAACCGGATCAACAATGCTTCTTCTTA 360
QY 361 AATGACCAAACTCTGGAAATTTTAAATVCCCTTCCACACTTGGCACCCACCGACCCA 420
DB 361 AATGACCAAACTCTGGAAATTTTAAATVCCCTTCCACACTTGGCACCCACCGACCCA 420
QY 421 TCTGTGCCCTCTCGATTTATATATTTGGTGTGATTTTGGCATCATCATAGTTGCAATT 480
DB 421 TCTGTGCCCTCTCGATTTATATATTTGGTGTGATTTTGGCATCATCATAGTTGCAATT 480
QY 481 GCACCTACTGATTTTATCAGGGATCTGGCAACGTTAGAGAAAGAAACCAAGAACCATCTGAA 540
DB 481 GCACCTACTGATTTTATCAGGGATCTGGCAACGTTAGAGAAAGAAACCAAGAACCATCTGAA 540
QY 541 GTGATGACGCTGAAGATAAGTGTGAACCAATGATCACAATTTGAAAAATGGCATCCCTCT 600
DB 541 GTGATGACGCTGAAGATAAGTGTGAACCAATGATCACAATTTGAAAAATGGCATCCCTCT 600
QY 601 GATCCCTGGACATGAGGGGGGCATATTAATGATGCTTCCATGACAGAGATGAGAGC 660
DB 601 GATCCCTGGACATGAGGGGGGCATATTAATGATGCTTCCATGACAGAGATGAGAGC 660
QY 661 TCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTTCAAGAAATTAACAATTTGTTTCTCT 720
DB 661 TCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTTCAAGAAATTAACAATTTGTTTCTCT 720
QY 721 GTGACTGCTGAGCATCTGAAATACCAAGACGAGATCATATATTTTGTGTTTCAACATCTT 780
DB 721 GTGACTGCTGAGCATCTGAAATACCAAGACGAGATCATATATTTTGTGTTTCAACATCTT 780
QY 781 CTTTGTGTAATAAATTTGAAATGCTGTAAGTGTGAAGTGAAGAGCAATCAATATATCCCAAC 840
DB 781 CTTTGTGTAATAAATTTGAAATGCTGTAAGTGTGAAGTGAAGAGCAATCAATATATCCCAAC 840
QY 841 ACCACTGAAATCATAAAGCTATTTCAGACTCAAAATATTCTAAATATTCTTCGACAGTA 900
DB 841 ACCACTGAAATCATAAAGCTATTTCAGACTCAAAATATTCTAAATATTCTTCGACAGTA 900
QY 901 TAGTGTAATAATGCTGATGCTGTAATTTGTAGTATTGATTTAAGCAATTTTAGAATA 960
DB 901 TAGTGTAATAATGCTGATGCTGTAATTTGTAGTATTGATTTAAGCAATTTTAGAATA 960
QY 961 AGATCAGGCATATGATATATTTTCAACTTCAAGACCTAAGGAAAAATAAATTTTCCA 1020
DB 961 AGATCAGGCATATGATATATTTTCAACTTCAAGACCTAAGGAAAAATAAATTTTCCA 1020
QY 1021 GTGAGAAATACATATAATATGCTGTAGAAATCATTTGAAATTTGGATCTTTTGGACATCA 1080
DB 1021 GTGAGAAATACATATAATATGCTGTAGAAATCATTTGAAATTTGGATCTTTTGGACATCA 1080
QY 1081 CTTATATCACTCTCTATATGACTAAGTAAACAAAGTGAGAGATTAATTTTGTAAATGA 1140
DB 1081 CTTATATCACTCTCTATATGACTAAGTAAACAAAGTGAGAGATTAATTTTGTAAATGA 1140
QY 1141 TGGATAAATAATGGAATTTACTCATATACAGGGTGGAAATTTTATCTGTTTATCACCAACA 1200
DB 1141 TGGATAAATAATGGAATTTACTCATATACAGGGTGGAAATTTTATCTGTTTATCACCAACA 1200
QY 1201 GTTGATTTATATTTTCTGATATATCAGCCCTTAATAGCAATTTCTATTTGTTGACCAT 1260
DB 1201 GTTGATTTATATTTTCTGATATATCAGCCCTTAATAGCAATTTCTATTTGTTGACCAT 1260
QY 1261 TCTCAATTTGTAAAGTCCAAATCTGTGCTAACTTAATAAAGTAAATATATCATCTCTTTT 1320
DB 1261 TCTCAATTTGTAAAGTCCAAATCTGTGCTAACTTAATAAAGTAAATATATCATCTCTTTT 1320
QY 1321 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 1346
DB 1321 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 1346

Db 1321 AAAAAAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 12
ACA67234
ID ACA67234 standard; cDNA; 1346 BP.
XX AC ACA67234;
XX DT 23-JUN-2003 (first entry)
XX DE cDNA encoding human PRO polypeptide #241.
XX KW Human; PRO polypeptide; secreted and transmembrane protein;
KW anti-PRO antibody; diagnostic assay; gene expression; diabetes;
KW bone disorder; osteoarthritis; rheumatoid arthritis; obesity;
KW sports injury; cartilage disorder; hyper-insulinaemia; hypo-insulinaemia;
KW hearing loss; coagulation disorder; stroke; heart attack; cardiac;
KW antidiabetic; anorectic; vulnerable; antiarthritic; osteopathic;
KW antirheumatic; auditory; cerebroprotective; angiogenic; gene; ss.
XX OS Homo sapiens.
XX PN US2003004311-A1.
XX PD 02-JAN-2003.
XX PF 19-DEC-2001; 2001US-00028072.
XX PR 18-JUN-1997; 97US-0049911P.
PR 26-AUG-1997; 97US-0056974P.
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 19-SEP-1997; 97US-0059352P.
PR 19-SEP-1997; 97US-0059588P.
PR 24-SEP-1997; 97US-0059836P.
PR 17-OCT-1997; 97US-0062250P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 17-OCT-1997; 97US-0063755P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063082P.
PR 24-OCT-1997; 97US-0063127P.
PR 27-OCT-1997; 97US-0063327P.
PR 28-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063561P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063733P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 11-DEC-1997; 97US-0069212P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 16-DEC-1997; 97US-0069694P.
PR 23-JAN-1998; 98US-0072320P.
PR 04-FEB-1998; 98US-0073612P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.

PR 12-MAR-1998; 98US-0077791P.
PR 20-MAR-1998; 98US-0078910P.
PR 25-MAR-1998; 98US-0079294P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079728P.
PR 31-MAR-1998; 98US-0080165P.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 16-DEC-1999; 99WO-US028565.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 11-FEB-2000; 2000WO-US000376.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.

(GETH) GENENTECH INC.
PA Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-352836/33.
XX P-PSDB; ABU81110.
DR New isolated PRO polypeptide useful for treating diabetes, rheumatoid
PT arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or
PT heart attack.
XX Claim 2; Fig 481; 643pp; English.
XX The present invention relates to the isolation of novel human PRO
CC

CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides and polynucleotides are useful for preparing a medicament
CC useful in the treatment of diabetes, bone and/or cartilage disorders
CC (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity,
CC hyper- or hypo-insulinaemia, hearing loss, and coagulation disorders
CC (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic
CC assays for PRO, by detecting its expression in specific cells, tissues or
CC serum, and for affinity purification of PRO from recombinant cell culture
CC or natural sources. ACA66994-ACA67268 represent cDNA sequences encoding
CC the human PRO polypeptides of the invention. Note: The sequence data for
CC this patent was obtained in electronic format directly from the USPTO web
CC site at seqdata.uspto.gov/psipdsIDEntry.html
XX

XX Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Query Match 100.0%; Score 1346; DB 7; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACTGCCAATTCATGCTGAACCTCTGTCAA	60
DB	1	GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACTGCCAATTCATGCTGAACCTCTGTCAA	60
QY	61	CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA	120
DB	61	CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA	120
QY	121	GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGAGCATGGTAGCTTTTCCATG	180
DB	121	GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGAGCATGGTAGCTTTTCCATG	180
QY	181	AGAAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC	240
DB	181	AGAAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC	240
QY	241	CAGAGGGTATCATCTCGTTTGGTGTACAGACCCCTTCAAAAATCACACCCCTCTCGCT	300
DB	241	CAGAGGGTATCATCTCGTTTGGTGTACAGACCCCTTCAAAAATCACACCCCTCTCGCT	300
QY	301	GTGAGGTGCATAGCCATAGATGAACAGAACCCGATCAACAATGCCTTCTTTCTA	360
DB	301	GTGAGGTGCATAGCCATAGATGAACAGAACCCGATCAACAATGCCTTCTTTCTA	360
QY	361	AATGACCAAACTCTGAAATTTTAAATCCCTTCCACACTTGCACCCCATGACCCA	420
DB	361	AATGACCAAACTCTGAAATTTTAAATCCCTTCCACACTTGCACCCCATGACCCA	420
QY	421	TCTGTGCCCATCTGGATTAATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT	480
DB	421	TCTGTGCCCATCTGGATTAATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT	480
QY	481	GCATCTGATTTTATCAGGGATCTGGCAACCTAGAGAGAAACAAGAACCATCTGAA	540
DB	481	GCATCTGATTTTATCAGGGATCTGGCAACCTAGAGAGAAACAAGAACCATCTGAA	540
QY	541	GTGATGAGCGTGAAGATAGTTCGAACATGATCACAATTTGAAATGGCATCCCTCT	600
DB	541	GTGATGAGCGTGAAGATAGTTCGAACATGATCACAATTTGAAATGGCATCCCTCT	600
QY	601	GATCCCTTGGACATGAGGGGGCATATTAATGATGCCCTTATGACAGAGATGAGAGC	660
DB	601	GATCCCTTGGACATGAGGGGGCATATTAATGATGCCCTTATGACAGAGATGAGAGC	660
QY	661	TCACCCCTCTCTGAAGGGCTGTGTCTCTTCTCTCAAGAAATTAACAATTTTCTGT	720
DB	661	TCACCCCTCTCTGAAGGGCTGTGTCTCTTCTCTCAAGAAATTAACAATTTTCTGT	720
QY	721	GTGACTGTGACATCTCTGAATACCAAGAGAGATCATATATTTTGTTCACCAATCTT	780
DB	721	GTGACTGTGACATCTCTGAATACCAAGAGAGATCATATATTTTGTTCACCAATCTT	780
QY	781	CTTTTGTGTAATTAATTTTGAATGCTGCTTGAAAGTGAAAGCAATCAATTAATACCCCAAC	840

DB	781	CTTTTGTGTAATTAATTTTGAATGCTGCTTGAAAGTGAAAGCAATCAATTAATACCCCAAC	840
QY	841	ACCACCTGGAATCATAGCTATTTCAAGACTCAAAATATTTCTAAATATTTTCTGACAGTA	900
DB	841	ACCACCTGGAATCATAGCTATTTCAAGACTCAAAATATTTCTAAATATTTTCTGACAGTA	900
QY	901	TAGTGTATAAAATGCTGCTCATGTGGTATTTGTAGTTTATGATTTAAGCATTTTGTAGAA	960
DB	901	TAGTGTATAAAATGCTGCTCATGTGGTATTTGTAGTTTATGATTTAAGCATTTTGTAGAA	960
QY	961	AGATCAGGCATATGATATATATTTTTCACACTTCAAGACCTTAAGGAAAAATAAATTTTCCA	1020
DB	961	AGATCAGGCATATGATATATATTTTTCACACTTCAAGACCTTAAGGAAAAATAAATTTTCCA	1020
QY	1021	GTGGAGAAATACATATAATATGCTAGTAATCAATTCGAAATGATCCTTTTTCACCATCA	1080
DB	1021	GTGGAGAAATACATATAATATGCTAGTAATCAATTCGAAATGATCCTTTTTCACCATCA	1080
QY	1081	CTTATATCACTCTGTATATGACTTAAGTAAACAAAGTGAGAGTAATTAATTTGAAATGGA	1140
DB	1081	CTTATATCACTCTGTATATGACTTAAGTAAACAAAGTGAGAGTAATTAATTTGAAATGGA	1140
QY	1141	TGGATAAAATGGAATTAATCTCATATACAGGGTGGAAATTTATCTCTGTATCACCAACA	1200
DB	1141	TGGATAAAATGGAATTAATCTCATATACAGGGTGGAAATTTATCTCTGTATCACCAACA	1200
QY	1201	GTGATATATATATTTTCTGAAATATCGCCCTTAATAGGACAATTTCTATTTGTTGACCAT	1260
DB	1201	GTGATATATATATTTTCTGAAATATCGCCCTTAATAGGACAATTTCTATTTGTTGACCAT	1260
QY	1261	TCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT	1320
DB	1261	TCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT	1320
QY	1321	AAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346	
DB	1321	AAAAAAAAAAAAAAAAAAAAAAAAAAAA 1346	

RESULT 13
ACA64416
ID ACA64416 standard; cDNA; 1346 BP.
XX ACA64416;
AC ACA64416;
XX AC
DT 17-JUN-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO1312 cDNA.
XX
KW Human; secreted and transmembrane protein; cytostatic; anti-HIV;
KW viricide; hepatotropic; antiinflammatory; neuroprotective; gene therapy;
KW PRO; pharmaceutical; diagnostic; biosensor; bioindicator; malignancy;
KW cancer; ovarian cancer; colorectal cancer; Kaposi's sarcoma; leukaemia;
KW lymphoma; hepatitis B; multiple sclerosis; Crohn's disease;
KW drug screening; gene; ss.
XX
OS Homo sapiens.
XX
XX US2003003531-A1.
XX
PD 02-JAN-2003.
XX
PF 19-NOV-2001; 2001US-00989734.
XX
PR 16-JUN-1997; 97US-0049787B.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.

```
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087821P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.

PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2000WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ,
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF,
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
PI Zhang Z;
XX
XX WPI; 2003-352829/33.
DR P-PSDB; ABU72565.
XX
XX New genes and secreted and transmembrane polypeptides (e.g. PRO183 or
PT PRO184), useful for treating or diagnosing e.g. ovarian cancer, Kaposi's
PT sarcoma, leukemia, lymphoma, hepatitis B, multiple sclerosis or Crohn's
PT disease.
XX
XX Claim 1; Fig 277; 663pp; English.
XX
XX The invention describes a new isolated nucleic acid molecule comprising
CC the full length coding sequence of the DNA deposited with the American
CC Type Culture Collection (e.g. ATCC Deposit No. 209621, 552-PTA, 819-PTA,
CC 209439, 203135, etc); or a sequence with at least 80% identity to a DNA
CC encoding a PRO polypeptide. The PRO polypeptides or polynucleotides are
CC useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These
CC are particularly useful for detecting or treating e.g. malignancies or
CC cancers (e.g. ovarian cancer, colorectal cancer, Kaposi's sarcoma,
CC leukemia or lymphoma), hepatitis B, multiple sclerosis, or Crohn's
CC disease in mammals. The PRO polypeptides are useful in drug screening,
CC particularly as targets for therapeutic intervention in these diseases,
CC and in the diagnostic determination of the presence of these diseases.
CC The PRO polypeptides are also useful as molecular weight markers, or for
CC chromosome identification. The PRO genes are useful as hybridisation
CC probes, or for screening libraries of human cDNA, genomic DNA or mRNA.
CC The PRO genes may also be used in gene therapy, particularly for
CC replacing a defective gene. This sequence encodes a novel human secreted
CC and transmembrane PRO polypeptide
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Query Match 100.0%; Score 1346; DB 7; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAAGAAATGTTGGTGCTCTTTTCTGGTACCTGTCATTCATCTGAACTCTGCAA 60
DB 1 GAAAGAAATGTTGGTGCTCTTTTCTGGTACCTGTCATTCATCTGAACTCTGCAA 60
QY 61 CCAGGTGCAAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
DB 61 CCAGGTGCAAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
QY 121 GCATATGCTGGGATACCAATCAAGAATACCTTTCAAAGCGATGTAGTCTTCATG 180
DB 121 GCATATGCTGGGATACCAATCAAGAATACCTTTCAAAGCGATGTAGTCTTCATG 180
QY 181 AGAAAAGTTCCTCAACAGAGAACCAAGAAATTCCTATGCTCTTGTGCAATGTAAAC 240
DB 181 AGAAAAGTTCCTCAACAGAGAACCAAGAAATTCCTATGCTCTTGTGCAATGTAAAC 240
QY 241 CAGAGGGTATCATCTCGTTTGTGGTTTACAGAGCCCTTCAAAAATCACACCCCTTCTCTGCT 300
```

[illegible]

Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 14
 ACA03843
 ID ACA03843 standard; cDNA; 1346 BP.
 XX AC ACA03843;
 XX 23-MAY-2003 (first entry)
 XX cDNA encoding human PRO polypeptide #241.
 DE Human; PRO polypeptide; secreted and transmembrane protein;
 XX tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;
 KW differentiation; chondrocyte; tumour; genetic disorder; cytostatic; gene;
 KW ss.
 XX Homo sapiens.
 OS
 XX US2003036180-A1.
 XX PD 20-FEB-2003.
 XX PP 09-MAY-2002; 2002US-00143114.
 XX 31-MAR-1997; 97WO-US005230.
 PR 12-JUN-1998; 98WO-US012456.
 PR 14-JUL-1998; 98WO-US014552.
 PR 28-AUG-1998; 98WO-US017888.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019093.
 PR 14-SEP-1998; 98WO-US019094.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 29-OCT-1998; 98WO-US022991.
 PR 29-OCT-1998; 98WO-US022992.
 PR 20-NOV-1998; 98WO-US024855.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 10-MAR-1999; 99WO-US005190.
 PR 20-APR-1999; 99WO-US008615.
 PR 14-MAY-1999; 99WO-US010733.
 PR 02-JUN-1999; 99WO-US012252.
 PR 01-SEP-1999; 99WO-US020111.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 05-OCT-1999; 99WO-US023089.
 PR 29-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 30-NOV-1999; 99WO-US028409.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028564.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030959.
 PR 22-DEC-1999; 99WO-US030720.
 PR 30-DEC-1999; 99WO-US031243.
 PR 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 18-FEB-2000; 2000WO-US004342.

PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 10-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US0747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001US-00919692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
PA (GETH) GENENTECH INC.
XX
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PU, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI: 2003-332040/31.
DR P-PSDB; AB066810.
XX
XX New secreted and transmembrane PRO nucleic acids, useful for gene
PT therapy, in chromosome and gene mapping, as chromosome markers, in tissue
PT typing, and in chromosome identification.
XX
XX Claim 2: Fig 481; 660pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides are useful for detecting other PRO polypeptides, for linking
CC bioactive molecules to cells expressing PRO polypeptides, for modulating

CC biological activities of cells expressing PRO polypeptides, and for for
CC identifying agonists or antagonists. The PRO polypeptides are useful for
CC for stimulating the release of tumour necrosis factor (TNF)-alpha from
CC human blood, for stimulating the proliferation or differentiation of
CC chondrocytes, and detecting the presence of tumours. The polynucleotide
CC sequences encoding PRO polypeptides are useful as hybridisation probes,
CC in chromosome and gene mapping, in the generation of antisense RNA and
CC DNA, in the preparation of PRO polypeptides, for generating transgenic
CC animals or knockout animals, for the genetic analysis of individuals with
CC genetic disorders, and in gene therapy. ACA03603-ACA03877 represent cDNAs
CC encoding the human PRO polypeptides of the invention. Note: The sequence
CC data for this patent was obtained in electronic format directly from the
CC USPTO web site at seqdata.uspto.gov/psipdIDEntry.html
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;
Query Match 100.0%; Score 1346; DB 7; Length 1346;
Best Local Similarity 100.0%; Pred. No. 1.6e-262;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACATGCAATTCATCTGCACTCTGTCAA 60
DB 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACATGCAATTCATCTGCACTCTGTCAA 60
QY 61 CCAGCTGCAGAAATGCTTTTAAAGTGACACTTAGTATCAGAACAGCTCTGGGAGATAA 120
DB 61 CCAGCTGCAGAAATGCTTTTAAAGTGACACTTAGTATCAGAACAGCTCTGGGAGATAA 120
QY 121 GCATATGCTGGGATACCAATCAAGAAATACCTCTTCAAGCGATGCTTCTCCATG 180
DB 121 GCATATGCTGGGATACCAATCAAGAAATACCTCTTCAAGCGATGCTTCTCCATG 180
QY 181 AGAAAAGTTCCCAACAGAGAACCAACAGAAATTTCCCATGCTCTTTCGAATGAACC 240
DB 181 AGAAAAGTTCCCAACAGAGAACCAACAGAAATTTCCCATGCTCTTTCGAATGAACC 240
QY 241 CAGAGGGTATCAATCTGCTGTTTGTGGTACAGACCCCTTCAAAAATCACAACCTTCCTGCT 300
DB 241 CAGAGGGTATCAATCTGCTGTTTGTGGTACAGACCCCTTCAAAAATCACAACCTTCCTGCT 300
QY 301 GTTGAGGTGCATCAGCCATAGAATGAACAAGACCGATCAACAATGCTTCTTCTA 360
DB 301 GTTGAGGTGCATCAGCCATAGAATGAACAAGACCGATCAACAATGCTTCTTCTA 360
QY 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACATCTGCACACCCATGGACCCA 420
DB 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACATCTGCACACCCATGGACCCA 420
QY 421 TCTGTGCCCATCTCGAATTAATATTTTGGTGATATTTTGGCATCATCATAGTTGCAAT 480
DB 421 TCTGTGCCCATCTCGAATTAATATTTTGGTGATATTTTGGCATCATCATAGTTGCAAT 480
QY 481 GCACCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAACAAAGAACCATCTGAA 540
DB 481 GCACCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAACAAAGAACCATCTGAA 540
QY 541 GTGGATGACGCTGGAAGATGAAGTGAAGAACATGATCAATTTGAAAATGGCATCCCTCT 600
DB 541 GTGGATGACGCTGGAAGATGAAGTGAAGAACATGATCAATTTGAAAATGGCATCCCTCT 600
QY 601 GATCCCTGACATCAAGGGGGGCGATATTAATGATGCTTTCATGACAGAGGATGAGAGGC 660
DB 601 GATCCCTGACATCAAGGGGGGCGATATTAATGATGCTTTCATGACAGAGGATGAGAGGC 660
QY 661 TCACCCCTCTCTGAAGGGGCTGTTTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
DB 661 TCACCCCTCTCTGAAGGGGCTGTTTCTGCTTCTCAAGAAATTAACATTTGTTCTGT 720
QY 721 GTGACTGTGACATCTCTGAAGAACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780
DB 721 GTGACTGTGACATCTCTGAAGAACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780
QY 781 CTTTGTGTAATTAATTTTGAATGCTTGAAGAGGAAAGCAATCAATTATATATATATATAT 840


```
QY 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAGTGAAGTAATATTCTAAATGGA 1140
Db 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAGTGAAGTAATATTCTAAATGGA 1140
QY 1141 TGGATAAAAATGGAATTACTCATATACAGGGTGGAAATTTATCCCTGTTATCACACCAACA 1200
Db 1141 TGGATAAAAATGGAATTACTCATATACAGGGTGGAAATTTATCCCTGTTATCACACCAACA 1200
QY 1201 GTTGATTATATATTTCTGAAATATCAGCCCTTAATAGGACAATTCCTATTGTTGACCATTT 1260
Db 1201 GTTGATTATATATTTCTGAAATATCAGCCCTTAATAGGACAATTCCTATTGTTGACCATTT 1260
QY 1261 TCTACAATTTGTAAAGTCCCAATCTGTGCTAACTTAATAAGTAATATCATCTCTTTT 1320
Db 1261 TCTACAATTTGTAAAGTCCCAATCTGTGCTAACTTAATAAGTAATATCATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
```

Search completed: April 3, 2004, 20:47:23
Job time : 663 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 3, 2004, 20:09:10 ; Search time 138 Seconds
(without alignments)
5412.782 Million cell updates/sec

Title: US-09-989-724-386
Perfect score: 1346

Sequence: 1 gaagaaatgtgtgctgct.....aaaaaaaaaaaaaaaaaa 1346

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq: *
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq: *
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq: *
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq: *
5: /cgn2_6/ptodata/2/ina/PTOS_COMB.seq: *
6: /cgn2_6/ptodata/2/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	845.2	62.8	862	3	US-09-289-349-6
2	799.4	59.4	848	3	US-08-905-223-27
3	799.4	59.4	848	4	US-09-247-155-27
4	799.4	59.4	848	4	US-09-663-600A-27
5	799.4	59.4	848	4	US-09-621-976-5
6	125	9.3	2415	3	US-08-989-299-3
7	125	9.3	2415	4	US-09-407-427-3
8	125	9.3	3396	3	US-08-989-299-1
9	125	9.3	3396	4	US-10-158-847-141
10	125	9.3	3396	4	US-09-407-427-1
11	117	8.7	2920	4	US-10-158-847-137
12	69.4	5.2	2350	4	US-09-280-116-40
13	54	4.0	11288	3	US-08-646-301A-1
14	54	4.0	11288	4	US-08-481-968A-4
15	54	4.0	11288	4	US-08-154-712B-4
16	54	4.0	15056	4	US-09-474-699-10
17	52.8	3.9	26000	4	US-09-843-376-10
18	51.6	3.8	169575	4	US-09-426-290-1
19	47.8	3.6	636	3	US-08-998-416-1137
20	47.6	3.5	2238	3	US-08-617-860B-28
21	47.6	3.5	15567	4	US-09-627-376-3
22	47.2	3.5	11049	4	US-10-204-708-22
23	45.8	3.4	1559	4	US-09-489-847-42
24	45.6	3.4	255	4	US-09-540-236-28
25	45.4	3.4	615	3	US-08-998-416-186
26	45.4	3.4	3744	4	US-08-961-527-263
27	44.8	3.3	837	3	US-08-998-416-288

c	28	44.6	3.3	8607	4	US-10-204-708-71	Sequence 71, Appl
	29	44.6	3.3	19124	2	US-08-487-826B-13	Sequence 13, Appl
	30	44.2	3.3	1584	4	US-08-745-995A-1	Sequence 1, Appl
c	31	44.2	3.3	1584	4	US-08-745-995A-3	Sequence 3, Appl
	32	44.2	3.3	1584	4	US-09-005-352-1	Sequence 1, Appl
c	33	44.2	3.3	1584	4	US-09-005-352-3	Sequence 3, Appl
	34	44.2	3.3	786431	4	US-09-751-389-3	Sequence 3, Appl
	35	44	3.3	1111	4	US-08-956-171E-756	Sequence 756, App
	36	44	3.3	8920	2	US-08-446-855A-1	Sequence 1, Appl
	37	44	3.3	8920	3	US-09-150-741-1	Sequence 1, Appl
c	38	43.6	3.2	6583	4	US-10-204-708-26	Sequence 26, Appl
c	39	43.6	3.2	6801	4	US-10-204-708-62	Sequence 62, Appl
c	40	43.6	3.2	8654	1	US-08-920-812-6	Sequence 6, Appl
c	41	43.6	3.2	8654	1	US-08-920-827-6	Sequence 6, Appl
c	42	43.6	3.2	8654	1	US-08-921-177-6	Sequence 6, Appl
c	43	43.6	3.2	8654	1	US-08-362-577C-6	Sequence 6, Appl
c	44	43.6	3.2	8654	2	US-08-920-828-6	Sequence 6, Appl
c	45	43.4	3.2	5852	1	US-07-867-106-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1

US-09-289-349-6
; Sequence 6, Application US/09289349
; Patent No. 6277574
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael, G.
; APPLICANT: Volkumth, Wayne
; APPLICANT: Klingner, Tod, M.
; APPLICANT: Azimzai, Valda
; APPLICANT: Yue, Henry
; TITLE OF INVENTION: GENES ASSOCIATED WITH DISEASES OF THE KIDNEY
; FILE REFERENCE: PB-0010 US
; CURRENT APPLICATION NUMBER: US/09/289,349
; CURRENT FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 6
; LENGTH: 862
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: 2580580CT1
US-09-289-349-6

Query Match	62.8%	Score	845.2	DB	3	Length	862
Best Local Similarity	99.5%	Pred. No.	4.8e-197				
Matches	858	Conservative	0	Mismatches	3	Indels	1
		Gaps	1				
QY	472	GTTCGAATGCACTACTACTATTTTATCAGGGATCTGGCAAGCTAGAGAAAGACAAAGAA	531				
Db	1	GTTCGAATGCACTACTACTATTTTATCAGGGATCTGGCAAGCTAGAGAAAGACAAAGAA	60				
QY	532	CCATCTGAAGTGGATGAGCTCAAGATAGTGTGAACATATGATCAATTTGAATGGC	591				
Db	61	CCATCTGAAGTGGATGAGCTCAAGATAGTGTGAACATATGATCAATTTGAATGGC	120				
QY	592	ATCCCTCTGATCCCTCTGAGAGGG-GGGCAATTAATGATGCCCTTCATGACAGAG	650				
Db	121	ATCCCTCTGATCCCTCTGAGAGGGCAATTAATGATGCCCTTCATGACAGAG	180				
QY	651	GATGAGAGCTCAACCTCTCTGAGAGGGCTGTGTCTCTCTCTCAAGAAATTAACAT	710				
Db	181	GATGAGAGCTCAACCTCTCTGAGAGGGCTGTGTCTCTCTCTCAAGAAATTAACAT	240				
QY	711	TGTCTCTGTGACTGTGAGCATCTGAAATACCAAGCAGAGATCATATATTTTGT	770				
Db	241	TGTCTCTGTGACTGTGAGCATCTGAAATACCAAGCAGAGATCATATATTTTGT	300				
QY	771	CACCAATCTCTTTTGTAAATTTTGAATGTGCTTGAAGTGAAGCAATCAATAT	830				

Db 301 CACCAATCTCTTTTGTAAATAATTTTGAATGTGCTTGAAGTGAAGCAATCAATTAT 360
QY 831 ACCCAACCAACCACTGAATCATAGCTATTACAGACTCAAAATATTCTAATAATTTT 890
Db 361 ACCCAACCAACCACTGAATCATAGCTATTACAGACTCAAAATATTCTAATAATTTT 420
QY 891 TCTGACATAGTGTATAAATGCTGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCT 950
Db 421 TCTGACATAGTGTATAAATGCTGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
QY 951 TTTAGAAATAGATCAGGCATATGATATATTTTACACACTTCAAGACCTAAGGAAAT 1010
Db 481 TTTAGAAATAGATCAGGCATATGATATATTTTACACACTTCAAGACCTAAGGAAAT 540
QY 1011 AAATTTTCCAGTGAGATACATATAATATGCTGAGAAATCAATGAAATGCTGCTT 1070
Db 541 AAATTTTCCAGTGAGATACATATAATATGCTGAGAAATCAATGAAATGCTGCTT 600
QY 1071 TTGACGATCACTTATATCACTCTGATATGACTAAGTAAACAAAGTGAGAAATAT 1130
Db 601 TTGACGATCACTTATATCACTCTGATATGACTAAGTAAACAAAGTGAGAAATAT 660
QY 1131 TGTAATGATGATTAATAAATGGAATTAATCTATATACAGGGTGAATTTTATCTGTTAT 1190
Db 661 TGTAATGATGATTAATAAATGGAATTAATCTATATACAGGGTGAATTTTATCTGTTAT 720
QY 1191 CACCAACAGTTGATATATATATTTTCTGAATATCAGCCCTTAATAGGACATTTCTATT 1250
Db 721 CACCAACAGTTGATATATATATTTTCTGAATATCAGCCCTTAATAGGACATTTCTATT 780
QY 1251 GTTGACCAATTTTCAAAATGTAAGTCAAAATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1310
Db 781 GTTGACCAATTTTCAAAATGTAAGTCAAAATGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
QY 1311 ATCTCTTTTAAAAAATAAAAA 1332
Db 841 ATCTCTTAAAAAATAAAAAA 862

RESULT 2

US-08-905-223-27
; Sequence 27, Application US/08905223
; Patent No. 622029
; GENERAL INFORMATION:
; APPLICANT: Edwards, Jean-Baptiste D.
; APPLICANT: Duclert, Aymeric
; APPLICANT: Lacroix, Bruno
; TITLE OF INVENTION: 5' ESTs FOR SECRETED PROTEINS
; NUMBER OF SEQUENCES: 503
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Knobbe, Martens, Olson & Bear
; STREET: 501 West Broadway
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92101-3505
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Win95
; SOFTWARE: Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/905,223
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Israel, Ned A.
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 27:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 848 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: DOUBLE
; TOPOLOGY: LINEAR
; MOLECULE TYPE: CDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo Sapiens
; DEVELOPMENTAL STAGE: Fetal
; TISSUE TYPE: kidney
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 32..73
; IDENTIFICATION METHOD: Von Heijne matrix
; OTHER INFORMATION: score 10.7
; OTHER INFORMATION: seq LMLLFLVLTAIHA/EL
US-08-905-223-27

Query Match 59.4%; Score 799.4; DB 3; Length 848;
Best Local Similarity 98.8%; Pred. No. 7.2e-186;
Matches 809; Conservative 6; Mismatches 3; Indels 1; Gaps 1;
QY 1 GAAGAAATGTTGTGGCTGCTCTTTTCTGGTGACTGCCAATTCATGCTGAACCTCTGTCAA 60
Db 26 GAAGAAATGTTGTGGCTGCTCTTTTCTGGTGACTGCCAATTCATGCTGAACCTCTGTCAA 85
QY 61 CCAGGTGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAAA 120
Db 86 CCAGGTGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAAA 145
QY 121 GCATATGCTGGGATACCAATGAAGATACCTTCTCAAGCCGATGCTGCTTCTCCATG 180
Db 146 GCATATGCTGGGATACCAATGAAGATACCTTCTCAAGCCGATGCTGCTTCTCCATG 205
QY 181 AGAAAGTTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAACC 240
Db 206 AGAAAGTTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAACC 265
QY 241 CAGAGGTATCATCTCTGTTTGTGTATCAGACCTTTCAAAAATCACACCTTCCTGCT 300
Db 266 CAGAGGTATCATCTCTGTTTGTGTATCAGACCTTTCAAAAATCACACCTTCCTGCT 325
QY 301 GTTGAGGTGCATCAGCCATAGATGAACAGACCGGATCAACATGCTTCTTCTA 360
Db 326 GTTGAGGTGCATCAGCCATAGATGAACAGACCGGATCAACATGCTTCTTCTA 385
QY 361 AATGACCAAACTCTGAAATTTTAAAAATCCCTTCCACACTTGCCACCCATGGACCCA 420
Db 386 AATGACCAAACTCTGAAATTTTAAAAATCCCTTCCACACTTGCCACCCATGGACCCA 445
QY 421 TCTGTGCCCATCTGGATATATATATTTGGTGTGATATTTTGCATCATATAGTTGCAATT 480
Db 446 TCTGTGCCCATCTGGATATATATATTTGGTGTGATATTTTGCATCATATAGTTGCAATT 505
QY 481 GCATCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAAGAACCAATCTGAA 540
Db 506 GCATCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAAGAACCAATCTGAA 565
QY 541 GTGGATGACGCTGAAGATAAGTGTGAAACATGATCAAAATGAAATGGCATCCCTCT 600
Db 566 GTGGATGACGCTGAAGATAAGTGTGAAACATGATCAAAATGAAATGGCATCCCTCT 625
QY 601 GATCCCTGGACATGAAGGG-GGGCATATTAATGATGCTTCAATGACAGAGGATGAGAG 659
Db 626 GATCCCTGGACATGAAGGGGGCATATTAATGATGCTTCAATGACAGAGGATGAGAG 685
QY 660 CTCACCCCTCTCTGAAGGCTGTTCTGCTTCTCCTCAGAAATTAACATTTGTTCTG 719
Db 686 CTCACCCCTCTCTGAAGGCTGTTCTGCTTCTCCTCAGAAATTAACATTTGTTCTG 745
QY 720 TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATTTCT 779
Db 746 TGTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATTTCT 805

Qy 780 TCTTTTGTAAATAATTTTGAATGCTTGAAGTGAATA 818
Db 806 TCTTTTGTAAATAATTTTGAATGCTTGAAGTGAATA 844

RESULT 3

US-09-247-155-27

; Sequence 27, Application US/09247155A

; Patent No. 6312922

; GENERAL INFORMATION:

; APPLICANT: Dumas Milne Edwards, Jean-Baptiste

; APPLICANT: Duclert, Aymeric

; APPLICANT: Bouqueleret, Lydie

; TITLE OF INVENTION: Complementary DNAs

; FILE REFERENCE: GENSET.021A

; CURRENT APPLICATION NUMBER: US/09/247,155A

; CURRENT FILING DATE: 1999-02-09

; EARLIER APPLICATION NUMBER: 60/074,121

; EARLIER FILING DATE: 1998-02-09

; EARLIER APPLICATION NUMBER: 60/081,563

; EARLIER FILING DATE: 1998-04-13

; EARLIER APPLICATION NUMBER: 60/096,116

; EARLIER FILING DATE: 1998-08-10

; EARLIER APPLICATION NUMBER: 60/099,273

; EARLIER FILING DATE: 1998-10-04

; NUMBER OF SEQ ID NOS: 182

; SOFTWARE: Patent.pm

; SEQ ID NO 27

; LENGTH: 848

; TYPE: DNA

; ORGANISM: Homo Sapiens

; FEATURE:

; NAME/KEY: sig_peptide

; LOCATION: 32..73

; OTHER INFORMATION: Von Heijne matrix

US-09-247-155-27

Query Match 59.4%; Score 799.4; DB 4; Length 848;

Best Local Similarity 98.8%; Pred. No. 7.2e-186;

Matches 809; Conservative 6; Mismatches 3; Indels 1; Gaps 1;

Qy 1 GAAAGATGTTGGCTGCTCTTTTCTGGTGAATGCTGCAATCATGCTGAATCTGTCAA 60
Db 26 GAAAGATGTTGGCTGCTCTTTTCTGGTGAATGCTGCAATCATGCTGAATCTGTCAA 85
Qy 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA 120
Db 86 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA 145
Qy 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGGTAGCTTTCTCCATG 180
Db 146 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGGTAGCTTTCTCCATG 205
Qy 181 AGAAAGTTCCTCAACAGAGAGCAAGAAATTTCCCATGTCCTACTTTGCAATGTAAAC 240
Db 206 AGAAAGTTCCTCAACAGAGAGCAAGAAATTTCCCATGTCCTACTTTGCAATGTAAAC 265
Qy 241 CAGAGGTATCATCTCTGTTGTGTTACAGACCTTCAAAATCATCAACCTTCTCTGCT 300
Db 266 CAGAGGTATCATCTCTGTTGTGTTACAGACCTTCAAAATCATCAACCTTCTCTGCT 325
Qy 301 GTTGAGGTCAATCAGGCATCAAGAAATGAACAGAACCGGATCAACAAATGCTTCTTCTA 360
Db 326 GTTGAGGTCAATCAGGCATCAAGAAATGAACAGAACCGGATCAACAAATGCTTCTTCTA 385
Qy 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGGACCAACCCATGGACCCA 420
Db 386 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGGACCAACCCATGGACCCA 445
Qy 421 TCTGTGCCCATCTCGATATATATTTGGTGTGATTTTGGCATCATAGTTGCAATT 480
Db 446 TCTGTGCCCATCTCGATATATATTTGGTGTGATTTTGGCATCATAGTTGCAATT 505

Qy 481 GCCTACTGATTTTATTCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 540
Db 506 GCCTACTGATTTTATTCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 565
Qy 541 GTGGATGACCTGGAAGATAAGTGTGAAGAACATGATCAGAAATGGCATCCCTCT 600
Db 566 GTGGATGACCTGGAAGATAAGTGTGAAGAACATGATCAGAAATGGCATCCCTCT 625
Qy 601 GATCCCTGGACATGAAGGG- GGGCAVATTAATGATGCTTTCATGACAGAGGATGAGAG 659
Db 626 GATCCCTGGACATGAAGGGAGGGCAVATTAATGATGCTTTCATGACAGAGGATGAGAG 685
Qy 660 CTCACCCCTCTCTGAAGGGCTGTTTCTGCTTCTCAAGAAATTAACAATTTGTTCTG 719
Db 686 CTCACCCCTCTCTGAAGGGCTGTTTCTGCTTCTCAAGAAATTAACAATTTGTTCTG 745
Qy 720 TGTGACTGCTGACATCTCTGAATACCAAGAGCAGATCATATATTTTGTTCACCATCT 779
Db 746 TGTGACTGCTGACATCTCTGAATACCAAGAGCAGATCATATATTTTGTTCACCATCT 805
Qy 780 TCTTTTGTAAATAATTTTGAATGCTTGAAGTGAATA 818
Db 806 TCTTTTGTAAATAATTTTGAATGCTTGAAGTGAATA 844

RESULT 4

US-09-663-600A-27

; Sequence 27, Application US/09663600A

; Patent No. 6573668

; GENERAL INFORMATION:

; APPLICANT: Dumas Milne Edwards, Jean-Baptiste

; APPLICANT: Duclert, Aymeric

; APPLICANT: Bouqueleret, Lydie

; TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS

; FILE REFERENCE: 31.US3.CIP

; CURRENT APPLICATION NUMBER: US/09/663,600A

; CURRENT FILING DATE: 2000-09-15

; PRIOR APPLICATION NUMBER: 09/191,997

; PRIOR FILING DATE: 1998-11-13

; PRIOR APPLICATION NUMBER: 60/066,677

; PRIOR FILING DATE: 1997-11-13

; PRIOR APPLICATION NUMBER: 60/069,957

; PRIOR FILING DATE: 1997-12-17

; PRIOR APPLICATION NUMBER: 60/074,121

; PRIOR FILING DATE: 1998-02-09

; PRIOR APPLICATION NUMBER: 60/081,563

; PRIOR FILING DATE: 1998-04-13

; PRIOR APPLICATION NUMBER: 60/096,116

; PRIOR FILING DATE: 1998-08-10

; PRIOR APPLICATION NUMBER: 60/099,273

; PRIOR FILING DATE: 1998-09-04

; NUMBER OF SEQ ID NOS: 229

; SOFTWARE: Patent.pm

; SEQ ID NO 27

; LENGTH: 848

; TYPE: DNA

; ORGANISM: Homo Sapiens

; FEATURE:

; NAME/KEY: sig_peptide

; LOCATION: 32..73

; OTHER INFORMATION: Von Heijne matrix

US-09-663-600A-27

Query Match 59.4%; Score 799.4; DB 4; Length 848;

Best Local Similarity 98.8%; Pred. No. 7.2e-186;

Matches 809; Conservative 6; Mismatches 3; Indels 1; Gaps 1;

Qy 1 GAAAGATGTTGGCTGCTCTTTTCTGGTGAATGCTGCAATCATGCTGAATCTGTCAA 60
Db 26 GAAAGATGTTGGCTGCTCTTTTCTGGTGAATGCTGCAATCATGCTGAATCTGTCAA 85
Qy 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA 120

[illegible]

```

RESULT 5
US-09-621-976-5
; Sequence 5, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.Y.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621.976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5
; LENGTH: 848
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 32..697

```

```

; NAME/KEY: sig_peptide
; LOCATION: 32..73
; OTHER INFORMATION: Von Heijne matrix
US-09-621-976-5

Query Match          59.4%; Score 799.4; DB 4; Length 848;
Best Local Similarity 98.8%; Pred. No. 7.2e-186;
Matches 809; Conservative 6; Mismatches 3; Indels 1; Gaps 1;

Qy 1 GAAAGAAATGTTGGGCTGCTCTTTTTCTGGTCACTGCCAATTCATGCTGAACCTCTGTCAA 60
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 26 GAAAGAAATGTTGGGCTGCTCTTTTTCTGGTCACTGCCAATTCATGCTGAACCTCTGTCAA 85
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 61 CCAGGTGCAGAAATGCTTTTTAAAGTGAGACTTTAGTATCAGAAACAGCTCTGGGAGATAAA 120
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 86 CCAGGTGCAGAAATGCTTTTTAAAGTGAGACTTTAGTATCAGAAACAGCTCTGGGAGATAAA 145
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 121 GCATATGCCGCGATACCAATGAAGAAATCCTCTTCANAAGCGATGGTAGCTTTCTCCATG 180
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 146 GCATATGCCGCGATACCAATGAAGAAATCCTCTTCANAAGCGATGGTAGCTTTCTCCATG 205
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 181 AGAAAAGTTCCCAACAGAGAAAGCAACAGAAATTTCCCATGCTCTTTCGAATGTAAACC 240
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 206 AGAAAAGTTCCCAACAGAGAAAGCAACAGAAATTTCCCATGCTCTTTCGAATGTAAACC 265
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 241 CAGAGGGATGATCTTCTGGTTGTGGTTACAGACCTTTCAAAAATCACAACCTTCCTGCT 300
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 266 CAGAGGGATGATCTTCTGGTTGTGGTTACAGACCTTTCAAAAATCACAACCTTCCTGCT 325
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 301 GTTGAGGTGCATTCAGCCATAGAATGAACAGAACCGGATCAACAAATGCTTCTTTCTA 360
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 326 GTTGAGGTGCATTCAGCCATAGAATGAACAGAACCGGATCAACAAATGCTTCTTTCTA 385
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 361 AATGACCAAACTCTGGAATTTTTAAAAATCCCTTCCACACTTGACCAACCCATGGACCCA 420
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 386 AATGACCAAACTCTGGAATTTTTAAAAATCCCTTCCACACTTGACCAACCCATGGACCCA 445
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 421 TCTGTGCCCATCTGGATTTATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 446 TCTGTGCCCATCTGGATTTATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 505
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 481 GCATCTAGATTTTATCAGGGATCTGGCAAGCTAGAGAAAGAACCAAGACCACTCTGAA 540
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 506 GCATCTAGATTTTATCAGGGATCTGGCAAGCTAGAGAAAGAACCAAGACCACTCTGAA 565
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 541 GTGATGACCTGAAGTAAGTGTGAAAACATGATCAAAATGAAAATGGCATCCCTCT 600
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 566 GTGATGACCTGAARATAKTGTGAAAACATGATCAAAATGAAAATGGCATCCCTCT 625
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 601 GATCCCCCTGGACATGAAGG - GGGCATATTAATGATGCCCTTCATGACAGAGGATGAGAG 659
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 626 GATCCCCCTGGACATGAAGGAGGCGCATTAATAATGATGCCCTTCATGACAGAGGATGAGAG 685
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 660 CTCACCCCTCTCTGAAGGCTGTGTCTCTCTCAAGAAATTAACATTTGTTTCTG 719
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 686 CTCACCCCTCTCTGAAGGCTGTGTCTCTCTCAABAAATTAACATTTGTTTCTG 745
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 720 TGTGACTGCTGAGCATCTCGAAATPACCAAGACAGATCATATTTTGTGTTTCCACATCT 779
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 746 TGTGACTGCTGAGCATCTCGAAATPACCAAGACAGATCATATTTTGTGTTTCCACATCT 805
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 780 TCTTTTGTAAATAATTTTGAATGTGCTTGAAGGTGAAA 818
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 806 TCTTTTGTAAATAATTTTGAATGTGCTTGAAGGTGAAA 844
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 6
US-08-989-299-3
; Sequence 3, Application US/08989299
; Patent No. 6194556
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan L.
; APPLICANT: Robinson, Keith E.

```

;; TITLE OF INVENTION: ANGIOTENSIN CONVERTING ENZYME HOMOLOG
;; TITLE OF INVENTION: AND THERAPEUTIC AND DIAGNOSTIC USES THEREFOR
;; NUMBER OF SEQUENCES: 14
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: FOLEY, HOAG & ELIOT LLP
;; STREET: One Post Office Square
;; CITY: Boston
;; STATE: MA
;; COUNTRY: USA
;; ZIP: 02109-2170
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/989,299
;; FILING DATE: 11-DEC-1997
;; CLASSIFICATION: 514
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Arnold E., Beth
;; REGISTRATION NUMBER: 35,430
;; REFERENCE/DOCKET NUMBER: MIA-025.01
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 617-832-1000
;; TELEFAX: 617-832-7000
;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2415 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cdna
;; US-08-989-299-3

Query Match 9.3%; Score 125; DB 3; Length 2415;
Best Local Similarity 57.3%; Pred. No. 3.3e-21;
Matches 293; Conservative 0; Mismatches 200; Indels 18; Gaps 3;

Qy 54 CTGTCAACCCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGG 113
Db 1827 CTGGAGTCCATATGCAGACCAAGCATCAAAGTGAGGATAAGCCTAAATCAGCTCTGG 1886

Qy 114 AGATAAGCATATGCCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGCTAGCTTT 173
Db 1887 AGATAAGCATATGAATGGAACGCAATGAATGATCTGTTCCGATCATCTGTTGCATA 1946

Qy 174 CTCCATCAG--AAAGTTCCCAACAGAGACCAAGAAATTTCCC-----A 218
Db 1947 TGCTATGAGGCGTACTTTTAAAGTAAAGATCAAGATGATCTTTTGGGGAGGGA 2006

Qy 219 TGTCTTACTTTGCAATGTAACCCAGAGGGTATCAATCTGTGTTGTGTTACAGACCTTC 278
Db 2007 TGTGCGAGTGGCTAAATTTGAAACCAAGAAATCTCTTTAAATTTCTTGTCTACGACCTAA 2066

Qy 279 AAAAAA---TCACACCTCTCTGCTGTGTGAGTGCATCAGCCATAGAAATGAAACAGAA 335
Db 2067 AAATGTCTGTATATCATCTCTAGAACCTGAAGTTGAAAGGCCATCAGGATGTCCGGAG 2126

Qy 336 CCGGATCAACAATGCCCTTCTTTCTAAATGACCAAACTCTGGAATTTTAAATAATCCCTTC 395
Db 2127 CCGTATCAATGATGCTTCCGCTGTAATGACACAGCTAGAGTTCTGGGGATACAGCC 2186

Qy 396 CACACTTGCACCAACCCATGACCCATCTGTGCCATCTGTGATTAATATTTGTTGTTGAT 455
Db 2187 AACACTTGGACCTCTCTAAACAGCCCTCTTCCATATGCTGATTTTGTGGAGTTGT 2246

Qy 456 ATTTTGCATCATCATCTGCAATTTGCACTACTGATTTTATCAGGGATCTGCGACGTAG 515
Db 2247 GATGGGAGTATAGTGTGGCATTTGTCATCTCTGATCTTCACTGGGATCAGAGATCGGAA 2306

Qy 516 AAGAAAGAACAAAGAACCATCTGAAAGTGGAT 546
Db 2307 GAAGAAATTAAGCAAGAGTGGAGAAAT 2337

RESULT 8
US-08-989-299-1
; Sequence 1, Application US/08989299
; Patent No. 6194556
; GENERAL INFORMATION:

Db 2307 GAAGAAATTAAGCAAGAGTGGAGAAAT 2337

RESULT 7
US-09-407-427-3
; Sequence 3, Application US/09407427
; Patent No. 6610497
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan L.
; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: ANGIOTENSIN CONVERTING ENZYME HOMOLOG AND THERAPEUTIC
; FILE REFERENCE: MNI-132CP2
; CURRENT APPLICATION NUMBER: US/09/407,427
; CURRENT FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 09/163,648
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: 08/989,299
; PRIOR FILING DATE: 1997-12-11
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 2415
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-407-427-3

Query Match 9.3%; Score 125; DB 4; Length 2415;
Best Local Similarity 57.3%; Pred. No. 3.3e-21;
Matches 293; Conservative 0; Mismatches 200; Indels 18; Gaps 3;

Qy 54 CTGTCAACCCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGG 113
Db 1827 CTGGAGTCCATATGCAGACCAAGCATCAAAGTGAGGATAAGCCTAAATCAGCTCTGG 1886

Qy 114 AGATAAGCATATGCCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGCTAGCTTT 173
Db 1887 AGATAAGCATATGAATGGAACGCAATGAATGATCTGTTCCGATCATCTGTTGCATA 1946

Qy 174 CTCCATCAG--AAAGTTCCCAACAGAGACCAAGAAATTTCCC-----A 218
Db 1947 TGCTATGAGGCGTACTTTTAAAGTAAAGATCAAGATGATCTTTTGGGGAGGGA 2006

Qy 219 TGTCTTACTTTGCAATGTAACCCAGAGGGTATCAATCTGTGTTGTGTTACAGACCTTC 278
Db 2007 TGTGCGAGTGGCTAAATTTGAAACCAAGAAATCTCTTTAAATTTCTTGTCTACGACCTAA 2066

Qy 279 AAAAAA---TCACACCTCTCTGCTGTGTGAGTGCATCAGCCATAGAAATGAAACAGAA 335
Db 2067 AAATGTCTGTATATCATCTCTAGAACCTGAAGTTGAAAGGCCATCAGGATGTCCGGAG 2126

Qy 336 CCGGATCAACAATGCCCTTCTTTCTAAATGACCAAACTCTGGAATTTTAAATAATCCCTTC 395
Db 2127 CCGTATCAATGATGCTTCCGCTGTAATGACACAGCTAGAGTTCTGGGGATACAGCC 2186

Qy 396 CACACTTGCACCAACCCATGACCCATCTGTGCCATCTGTGATTAATATTTGTTGTTGAT 455
Db 2187 AACACTTGGACCTCTCTAAACAGCCCTCTTCCATATGCTGATTTTGTGGAGTTGT 2246

Qy 456 ATTTTGCATCATCATCTGCAATTTGCACTACTGATTTTATCAGGGATCTGCGACGTAG 515
Db 2247 GATGGGAGTATAGTGTGGCATTTGTCATCTCTGATCTTCACTGGGATCAGAGATCGGAA 2306

Qy 516 AAGAAAGAACAAAGAACCATCTGAAAGTGGAT 546
Db 2307 GAAGAAATTAAGCAAGAGTGGAGAAAT 2337

RESULT 8
US-08-989-299-1
; Sequence 1, Application US/08989299
; Patent No. 6194556
; GENERAL INFORMATION:

APPLICANT: Acton, Susan L.
APPLICANT: Robinson, Keith E.
TITLE OF INVENTION: ANGIOGENIN CONVERTING ENZYME HOMOLOGY
AND THERAPEUTIC AND DIAGNOSTIC USES THEREFOR
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY, HOAG & ELIOT LLP
STREET: One Post Office Square
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109-2170
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/989,299
FILING DATE: 11-DEC-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Arnold E., Beth
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: MIA-025.01
TELEPHONE: 617-832-1000
TELEFAX: 617-832-7000
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3396 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 82...2496
US-08-989-299-1

Query Match 9.3%; Score 125; DB 3; Length 3396;
Best Local Similarity 57.3%; Pred. No. 3.7e-21;
Matches 293; Conservative 0; Mismatches 200; Indels 18; Gaps 3;
QY 54 CTGTCAACGAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGG 113
DB 1908 CTGGAGTCCATATGCAGACCAAGCATCAAGTGAGGATAAGCTTAAATCAGCTCTTGG 1967
QY 114 AGATAAGCATATGCTGGGTACCAATGAGAAATACCTCTTCAAGCGATGCTAGCTTT 173
DB 1968 AGATAAGCATATGAAATGGAACGCAATGAAATGACCTGTTCCGATCATCTGTTGCATA 2027
QY 174 CTCCTATGAG--AAAAGTTCCCAACAGAGAACGCAAGAAATTTCCC-----A 218
DB 2028 TGCTATGAGGAGTACTTTTAAAGTAAATCAGATGATCTTTTGGGAGGAGGA 2087
QY 219 TGTCTACTTTGCAATGTAACCCAGAGGGTATCATCTGTTGTTGTTGTTTACAGACCTTC 278
DB 2088 TGTGCGAGTGGCTAATTTGAAACCAAGAAATCTCTTAAATTTCTTGTCACTGCACCTAA 2147
QY 279 AAAAAA---TCACACCTTCTGCTGTTGAGGTGCAATCAGCCATAGAAATGAACAGAA 335
DB 2148 AATGTGTGATATCATCTCTAGAACTGAAAGTGAAGGCCATCAGGATGTCCCGAG 2207
QY 336 CCGGATCAACATGCTCTTTCTAAATGACCAAACTCTGGAAATTTTAAAAATCCCTTC 395
DB 2208 CGGTATCAATGATGCTTTCCGTCTGAATGACACAGCTAGAGTTCTCGGGATACAGCC 2267
QY 396 CACACTTGCACCAACCCATGAGCCATCTGTGCCCCATCTGGATTTATATTTTGGTGTGAT 455
DB 2268 AACACTTGGACCTCTTAACCCAGCCCTGTTTCCATATGGCTGATGTTTGGAGTTGT 2327
QY 456 ATTTTGCATCATCATAGTTCGAATTTGCTACTGATTTTATCAGGGATCTGCAACGTAG 515
US-08-989-299-1

RESULT 10
US-09-407-427-1
; Sequence 1, Application US/09407427
; Patent No. 6610437

DB 2328 GATGGAGTGATAGTGGTTGGCAATTTGTCTCTGATCTTCTCTGGATCAGAGATCGGAA 2387
QY 516 AAGAAAGAACCAAGAACCAATCTGAAAGTGGAT 546
DB 2388 GAAGAAATAAAGCAAGAGTGGAGAAAT 2418
RESULT 9
US-10-158-847-141
; Sequence 141, Application US/10158847
; Patent No. 6592865
; GENERAL INFORMATION:
; APPLICANT: Tom Parry et al.
; TITLE OF INVENTION: Method and Compositions for Modulating ACB-2 Activity
; FILE REFERENCE: PF557
; CURRENT APPLICATION NUMBER: US/10/158,847
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: 60/295,004
; PRIOR FILING DATE: 2001-06-04
; NUMBER OF SEQ ID NOS: 158
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 141
; LENGTH: 3396
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-158-847-141
Query Match 9.3%; Score 125; DB 4; Length 3396;
Best Local Similarity 57.3%; Pred. No. 3.7e-21;
Matches 293; Conservative 0; Mismatches 200; Indels 18; Gaps 3;
QY 54 CTGTCAACGAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGG 113
DB 1908 CTGGAGTCCATATGCAGACCAAGCATCAAGTGAGGATAAGCTTAAATCAGCTCTTGG 1967
QY 114 AGATAAGCATATGCTGGGTACCAATGAGAAATACCTCTTCAAGCGATGCTAGCTTT 173
DB 1968 AGATAAGCATATGAAATGGAACGCAATGAAATGACCTGTTCCGATCATCTGTTGCATA 2027
QY 174 CTCCTATGAG--AAAAGTTCCCAACAGAGAACGCAAGAAATTTCCC-----A 218
DB 2028 TGCTATGAGGAGTACTTTTAAAGTAAATCAGATGATCTTTTGGGAGGAGGA 2087
QY 219 TGTCTACTTTGCAATGTAACCCAGAGGGTATCATCTGTTGTTGTTGTTTACAGACCTTC 278
DB 2088 TGTGCGAGTGGCTAATTTGAAACCAAGAAATCTCTTAAATTTCTTGTCACTGCACCTAA 2147
QY 279 AAAAAA---TCACACCTTCTGCTGTTGAGGTGCAATCAGCCATAGAAATGAACAGAA 335
DB 2148 AATGTGTGATATCATCTCTAGAACTGAAAGTGAAGGCCATCAGGATGTCCCGAG 2207
QY 336 CCGGATCAACATGCTCTTTCTAAATGACCAAACTCTGGAAATTTTAAAAATCCCTTC 395
DB 2208 CGGTATCAATGATGCTTTCCGTCTGAATGACACAGCTAGAGTTCTCGGGATACAGCC 2267
QY 396 CACACTTGCACCAACCCATGAGCCATCTGTGCCCCATCTGGATTTATATTTTGGTGTGAT 455
DB 2268 AACACTTGGACCTCTTAACCCAGCCCTGTTTCCATATGGCTGATGTTTGGAGTTGT 2327
QY 456 ATTTTGCATCATCATAGTTCGAATTTGCTACTGATTTTATCAGGGATCTGCAACGTAG 515
DB 2328 GATGGAGTGATAGTGGTTGGCAATTTGTCTCTGATCTTCTCTGGATCAGAGATCGGAA 2387
QY 516 AAGAAAGAACCAAGAACCAATCTGAAAGTGGAT 546
DB 2388 GAAGAAATAAAGCAAGAGTGGAGAAAT 2418

Db 2216 AACACTTGGACCTCTCAACAGCCCTCTGTTCCATATGGCTGATGTTTGGAGTTCT 2275
QY 456 ATTTCATCATATAGTTGCAATGCACTACTGATTTATCAGGATCGCAAGTA 514
Db 2276 GATGGAGTCATAGTGGTGGCAATGTCATCTCTGATCTTCACTGGGATCAGAGATCGGA 2334

RESULT 12

US-09-280-116-40/c
; Sequence 40, Application US/09280116A
; Patent No. 6331427

GENERAL INFORMATION:

; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: Nucleic Acid Molecules Encoding Human Protease Homologs
; FILE REFERENCE: 5800-24, 035800/176965
; CURRENT APPLICATION NUMBER: US/09/280,116A
; CURRENT FILING DATE: 1999-03-26
; NUMBER OF SEQ ID NOS: 268
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 40
; LENGTH: 2350
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: angiotensin-converting enzyme
US-09-280-116-40

Query Match 5.2%; Score 69.4; DB 4; Length 2350;
Best Local Similarity 55.1%; Pred. No. 1.2e-07;
Matches 211; Conservative 0; Mismatches 151; Indels 21; Gaps 3;

QY 72 AAATGCTTTTAAAGTCAGACTTAGTATCAGACAGCTCTGGGAGATAAAGCATATGCCCTG 131
Db 414 AAAAGCATCAAGTGAGGATAAAGCCTTAAATCAGCTCTTGGAGATAAAGCATATGAATG 355
QY 132 GGATACCAATGAAGTAACTCTTCAAAGCATGAGTGTCTTCTCCATGAG--AAAAGTT 189
Db 354 GAAAGCAATGAATGCTTCTGCTGATCATCTGTGATATGCTATGAGGAGTACTT 295
QY 190 CCCACAGAGAGCAACAGAAATTTCCC-----ATGCTCTACTTTGCAAT 234
Db 294 TTTAAAGTAAATAATCAGCATGATCTTTTGGGAGGAAGGATGCGAGTGGCTAAT 235
QY 235 GTAACCCAGAGGTATCATCTGCTGTTTGGTTAGACAGCCCTCAAAA-----AATCACAC 290
Db 234 TTGAACCAAGATCTCTTAAATTTCTTTGTCACCTGCCCCCTTAAATAATGTGTCTGATAT 175
QY 291 CCTTCTGCTGTGTAGGTGCAATCAGCCATAGAAATGAACAGACCGGATCAACAATGC 350
Db 174 CATCTCTAGAACTGAAGTTGAAGAAGCCATCAGGATGTCGGAGCGGTATCATGATGC 115
QY 351 CTCTCTTCTTAAATGACCAACTCTGGAATTTTAAATAATCCCTTCCACACTTGCACACC 410
Db 114 TTTCCGCTCTGAATGACCAACAGCCTAGAGTTTCTGGGGATACAGCAACACTTGGACCTCC 55
QY 411 CATGGACCATCTGTGCCCCTCT 433
Db 54 TAACACGCCCCCTGTTCCGACT 32

RESULT 13

US-08-646-301A-1/c
; Sequence 1, Application US/08646301A
; Patent No. 6194211

GENERAL INFORMATION:

; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: Nucleic Acid Molecules Encoding Human Protease Homologs
; FILE REFERENCE: 5800-24, 035800/176965
; CURRENT APPLICATION NUMBER: US/09/280,116A
; CURRENT FILING DATE: 1999-03-26
; NUMBER OF SEQ ID NOS: 268
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 40
; LENGTH: 2350
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: angiotensin-converting enzyme
US-09-280-116-40

; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11288
; TYPE: DNA
; ORGANISM: Homo sapiens
US-08-646-301A-1

Query Match 4.0%; Score 54; DB 3; Length 11288;
Best Local Similarity 62.1%; Pred. No. 0.0011;
Matches 118; Conservative 0; Mismatches 70; Indels 2; Gaps 2;

QY 210 AATTTCCCATGCTTCTGCAATGTAACCCAGAGGTATCATCTGTTTGGTTTAC 269
Db 4628 AATTTCCCATGCTTCTGCAATGTAACCCAGAGGTATCATCTGTTTGGTTTAC 4570
QY 270 AGACCTTCAAAAAATCACACCTTCTGCTGTGAGGTGCAATCAGCCATAGAATGAA 329
Db 4569 AGGCCCCCTGGAAAAACCCACTCTGCTCTGCTG-TGAGGTACAGGCAGCCATGTGGCATCA 4511
QY 330 CAAGAACCGGATCAACAATGCTTCTTCTAAATGACCAAACTCTGGAATTTTAAAAAT 389
Db 4510 ACTCTAAACACTCTAAATGATATCTTCTCTGGGACATCAAACTGCTGATTAAGTAAACT 4451
QY 390 CCTTCCACA 399
Db 4450 CTTTGGAAA 4441

RESULT 14

US-08-481-968A-4/c
; Sequence 4, Application US/08481968A
; Patent No. 6300490

GENERAL INFORMATION:

; APPLICANT: Huber, Brian
; TITLE OF INVENTION: Molecular Constructs Comprising a Carcinoembryonic Antigen (C)
; TITLE OF INVENTION: Transcriptional Regulatory Region
; FILE REFERENCE: PB1087US4
; CURRENT APPLICATION NUMBER: US/08/481,968A
; CURRENT FILING DATE: 1998-06-07
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent in version 3.0

; SEQ ID NO 4

; LENGTH: 11288

; TYPE: DNA

; ORGANISM: Homo sapiens

US-08-481-968A-4

Query Match 4.0%; Score 54; DB 4; Length 11288;
Best Local Similarity 62.1%; Pred. No. 0.0011;
Matches 118; Conservative 0; Mismatches 70; Indels 2; Gaps 2;

QY 210 AATTTCCCATGCTTCTGCAATGTAACCCAGAGGTATCATCTGTTTGGTTTAC 269
Db 4628 AATTTCCCATGCTTCTGCAATGTAACCCAGAGGTATCATCTGTTTGGTTTAC 4570
QY 270 AGACCTTCAAAAAATCACACCTTCTGCTGTGAGGTGCAATCAGCCATAGAATGAA 329
Db 4569 AGGCCCCCTGGAAAAACCCACTCTGCTCTGCTG-TGAGGTACAGGCAGCCATGTGGCATCA 4511
QY 330 CAAGAACCGGATCAACAATGCTTCTTCTAAATGACCAAACTCTGGAATTTTAAAAAT 389
Db 4510 ACTCTAAACACTCTAAATGATATCTTCTCTGGGACATCAAACTGCTGATTAAGTAAACT 4451
QY 390 CCTTCCACA 399
Db 4450 CTTTGGAAA 4441

RESULT 15

US-08-154-712B-4/c
; Sequence 4, Application US/08154712B

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 3, 2004, 22:20:43 ; Search time 587 Seconds
(without alignments)
8576.314 Million cell updates/sec

Title: US-09-989-724-386
Perfect score: 1346
Sequence: 1 gaagaatgtgtggtgctgct.....aaaaaaaaaaaaaaaaaaaa 1346

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2466186 seqs, 1870095128 residues

Total number of hits satisfying chosen parameters: 4932372

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1346	100.0	1346	9	US-09-989-722-386
2	1346	100.0	1346	9	US-09-989-723-386
3	1346	100.0	1346	9	US-09-989-279-386
4	1346	100.0	1346	9	US-09-989-727-386
5	1346	100.0	1346	9	US-09-989-731-386
6	1346	100.0	1346	9	US-09-989-732-386
7	1346	100.0	1346	9	US-09-991-073-386
8	1346	100.0	1346	9	US-09-990-442-386
9	1346	100.0	1346	9	US-09-991-163-386
10	1346	100.0	1346	9	US-09-993-604-386
11	1346	100.0	1346	9	US-09-990-456-386
12	1346	100.0	1346	9	US-09-989-721-386
13	1346	100.0	1346	9	US-09-992-598-386
14	1346	100.0	1346	9	US-09-989-293A-386
15	1346	100.0	1346	9	US-09-989-735-386

16	1346	100.0	1346	9	US-09-990-444-386	Sequence 386, App
17	1346	100.0	1346	9	US-09-991-181-386	Sequence 386, App
18	1346	100.0	1346	9	US-09-989-730-386	Sequence 386, App
19	1346	100.0	1346	9	US-09-990-436-386	Sequence 386, App
20	1346	100.0	1346	9	US-09-993-687-386	Sequence 386, App
21	1346	100.0	1346	10	US-09-989-734-386	Sequence 386, App
22	1346	100.0	1346	10	US-09-997-653-386	Sequence 386, App
23	1346	100.0	1346	10	US-09-993-667-386	Sequence 386, App
24	1346	100.0	1346	10	US-09-997-428-386	Sequence 386, App
25	1346	100.0	1346	10	US-09-997-666-386	Sequence 386, App
26	1346	100.0	1346	10	US-09-990-438-386	Sequence 386, App
27	1346	100.0	1346	10	US-09-990-562-386	Sequence 386, App
28	1346	100.0	1346	10	US-09-990-711-386	Sequence 386, App
29	1346	100.0	1346	10	US-09-989-726-386	Sequence 386, App
30	1346	100.0	1346	10	US-09-988-156-386	Sequence 386, App
31	1346	100.0	1346	10	US-09-990-437-386	Sequence 386, App
32	1346	100.0	1346	10	US-09-991-157-386	Sequence 386, App
33	1346	100.0	1346	10	US-09-997-514-386	Sequence 386, App
34	1346	100.0	1346	10	US-09-997-573-386	Sequence 386, App
35	1346	100.0	1346	10	US-09-991-172-386	Sequence 386, App
36	1346	100.0	1346	10	US-09-990-726-386	Sequence 386, App
37	1346	100.0	1346	10	US-09-997-559-386	Sequence 386, App
38	1346	100.0	1346	10	US-09-997-601-386	Sequence 386, App
39	1346	100.0	1346	10	US-09-990-443-386	Sequence 386, App
40	1346	100.0	1346	10	US-09-991-854-386	Sequence 386, App
41	1346	100.0	1346	10	US-09-997-628-386	Sequence 386, App
42	1346	100.0	1346	10	US-09-997-683-386	Sequence 386, App
43	1346	100.0	1346	10	US-09-989-729A-386	Sequence 386, App
44	1346	100.0	1346	10	US-09-997-349-386	Sequence 386, App
45	1346	100.0	1346	10	US-09-997-440-386	Sequence 386, App

ALIGNMENTS

RESULT 1

US-09-989-722-386
; Sequence 386, Application US/09989722
; Patent No. US20020072067A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C63
; CURRENT APPLICATION NUMBER: US/09/989,722
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17

1 PRIOR APPLICATION NUMBER: 60/065186
2 PRIOR FILING DATE: 1997-11-12
3 PRIOR APPLICATION NUMBER: 60/065311
4 PRIOR FILING DATE: 1997-11-13
5 PRIOR APPLICATION NUMBER: 60/066770
6 PRIOR FILING DATE: 1997-11-24
7 PRIOR APPLICATION NUMBER: 60/075945
8 PRIOR FILING DATE: 1998-02-25
9 PRIOR APPLICATION NUMBER: 60/078910
10 PRIOR FILING DATE: 1998-03-20
11 PRIOR APPLICATION NUMBER: 60/083322
12 PRIOR FILING DATE: 1998-04-28
13 PRIOR APPLICATION NUMBER: 60/084600
14 PRIOR FILING DATE: 1998-05-07
15 PRIOR APPLICATION NUMBER: 60/087106
16 PRIOR FILING DATE: 1998-05-28
17 PRIOR APPLICATION NUMBER: 60/087607
18 PRIOR FILING DATE: 1998-06-02
19 PRIOR APPLICATION NUMBER: 60/087609
20 PRIOR FILING DATE: 1998-06-02
21 PRIOR APPLICATION NUMBER: 60/087759
22 PRIOR FILING DATE: 1998-06-02
23 PRIOR APPLICATION NUMBER: 60/087827
24 PRIOR FILING DATE: 1998-06-03
25 PRIOR APPLICATION NUMBER: 60/088021
26 PRIOR FILING DATE: 1998-06-04
27 PRIOR APPLICATION NUMBER: 60/088025
28 PRIOR FILING DATE: 1998-06-04
29 PRIOR APPLICATION NUMBER: 60/088026
30 PRIOR FILING DATE: 1998-06-04
31 PRIOR APPLICATION NUMBER: 60/088028
32 PRIOR FILING DATE: 1998-06-04
33 PRIOR APPLICATION NUMBER: 60/088029
34 PRIOR FILING DATE: 1998-06-04
35 PRIOR APPLICATION NUMBER: 60/088030
36 PRIOR FILING DATE: 1998-06-04
37 PRIOR APPLICATION NUMBER: 60/088033
38 PRIOR FILING DATE: 1998-06-04
39 PRIOR APPLICATION NUMBER: 60/088326
40 PRIOR FILING DATE: 1998-06-04
41 PRIOR APPLICATION NUMBER: 60/088167
42 PRIOR FILING DATE: 1998-06-05
43 PRIOR APPLICATION NUMBER: 60/088202
44 PRIOR FILING DATE: 1998-06-05
45 PRIOR APPLICATION NUMBER: 60/088212
46 PRIOR FILING DATE: 1998-06-05
47 PRIOR APPLICATION NUMBER: 60/088217
48 PRIOR FILING DATE: 1998-06-05
49 PRIOR APPLICATION NUMBER: 60/088655
50 PRIOR FILING DATE: 1998-06-09
51 PRIOR APPLICATION NUMBER: 60/088734
52 PRIOR FILING DATE: 1998-06-10
53 PRIOR APPLICATION NUMBER: 60/088738
54 PRIOR FILING DATE: 1998-06-10
55 PRIOR APPLICATION NUMBER: 60/088742
56 PRIOR FILING DATE: 1998-06-10
57 PRIOR APPLICATION NUMBER: 60/088810
58 PRIOR FILING DATE: 1998-06-10
59 PRIOR APPLICATION NUMBER: 60/088824
60 PRIOR FILING DATE: 1998-06-10
61 PRIOR APPLICATION NUMBER: 60/088826
62 PRIOR FILING DATE: 1998-06-10
63 PRIOR APPLICATION NUMBER: 60/088858
64 PRIOR FILING DATE: 1998-06-11
65 PRIOR APPLICATION NUMBER: 60/088861
66 PRIOR FILING DATE: 1998-06-11
67 PRIOR APPLICATION NUMBER: 60/088876
68 PRIOR FILING DATE: 1998-06-11
69 PRIOR APPLICATION NUMBER: 60/089105
70 PRIOR FILING DATE: 1998-06-12
71 PRIOR APPLICATION NUMBER: 60/089440
72 PRIOR FILING DATE: 1998-06-16
73 PRIOR APPLICATION NUMBER: 60/089512

74 PRIOR FILING DATE: 1998-06-16
75 PRIOR APPLICATION NUMBER: 60/089514
76 PRIOR FILING DATE: 1998-06-16
77 PRIOR APPLICATION NUMBER: 60/089532
78 PRIOR FILING DATE: 1998-06-17
79 PRIOR APPLICATION NUMBER: 60/089538
80 PRIOR FILING DATE: 1998-06-17
81 PRIOR APPLICATION NUMBER: 60/089598
82 PRIOR FILING DATE: 1998-06-17
83 PRIOR APPLICATION NUMBER: 60/089599
84 PRIOR FILING DATE: 1998-06-17
85 PRIOR APPLICATION NUMBER: 60/089600
86 PRIOR FILING DATE: 1998-06-17
87 PRIOR APPLICATION NUMBER: 60/089653
88 PRIOR FILING DATE: 1998-06-17
89 PRIOR APPLICATION NUMBER: 60/089801
90 PRIOR FILING DATE: 1998-06-18
91 PRIOR APPLICATION NUMBER: 60/089907
92 PRIOR FILING DATE: 1998-06-18
93 PRIOR APPLICATION NUMBER: 60/089908
94 PRIOR FILING DATE: 1998-06-18
95 PRIOR APPLICATION NUMBER: 60/089947
96 PRIOR FILING DATE: 1998-06-19
97 PRIOR APPLICATION NUMBER: 60/089948
98 PRIOR FILING DATE: 1998-06-19
99 PRIOR APPLICATION NUMBER: 60/089952
100 PRIOR FILING DATE: 1998-06-19
101 PRIOR APPLICATION NUMBER: 60/090246
102 PRIOR FILING DATE: 1998-06-22
103 PRIOR APPLICATION NUMBER: 60/090252
104 PRIOR FILING DATE: 1998-06-22
105 PRIOR APPLICATION NUMBER: 60/090254
106 PRIOR FILING DATE: 1998-06-22
107 PRIOR APPLICATION NUMBER: 60/090349
108 PRIOR FILING DATE: 1998-06-23
109 PRIOR APPLICATION NUMBER: 60/090355
110 PRIOR FILING DATE: 1998-06-23
111 PRIOR APPLICATION NUMBER: 60/090429
112 PRIOR FILING DATE: 1998-06-24
113 PRIOR APPLICATION NUMBER: 60/090431
114 PRIOR FILING DATE: 1998-06-24
115 PRIOR APPLICATION NUMBER: 60/090435
116 PRIOR FILING DATE: 1998-06-24
117 PRIOR APPLICATION NUMBER: 60/090444
118 PRIOR FILING DATE: 1998-06-24
119 PRIOR APPLICATION NUMBER: 60/090445
120 PRIOR FILING DATE: 1998-06-24
121 PRIOR APPLICATION NUMBER: 60/090472
122 PRIOR FILING DATE: 1998-06-24
123 PRIOR APPLICATION NUMBER: 60/090535
124 PRIOR FILING DATE: 1998-06-24
125 PRIOR APPLICATION NUMBER: 60/090540
126 PRIOR FILING DATE: 1998-06-24
127 PRIOR APPLICATION NUMBER: 60/090542
128 PRIOR FILING DATE: 1998-06-24
129 PRIOR APPLICATION NUMBER: 60/090557
130 PRIOR FILING DATE: 1998-06-24
131 PRIOR APPLICATION NUMBER: 60/090676
132 PRIOR FILING DATE: 1998-06-25
133 PRIOR APPLICATION NUMBER: 60/090678
134 PRIOR FILING DATE: 1998-06-25
135 PRIOR APPLICATION NUMBER: 60/090690
136 PRIOR FILING DATE: 1998-06-25
137 PRIOR APPLICATION NUMBER: 60/090694
138 PRIOR FILING DATE: 1998-06-25
139 PRIOR APPLICATION NUMBER: 60/090695
140 PRIOR FILING DATE: 1998-06-25
141 PRIOR APPLICATION NUMBER: 60/090696
142 PRIOR FILING DATE: 1998-06-25
143 PRIOR APPLICATION NUMBER: 60/090862
144 PRIOR FILING DATE: 1998-06-26
145 PRIOR APPLICATION NUMBER: 60/090863
146 PRIOR FILING DATE: 1998-06-26

TITLE OF INVENTION:	Acids Encoding the Same
FILE REFERENCE:	P2730PIC62
CURRENT APPLICATION NUMBER:	US/09/989,723
PRIOR FILING DATE:	2001-11-19
PRIOR APPLICATION NUMBER:	60/049787
PRIOR FILING DATE:	1997-06-15
PRIOR APPLICATION NUMBER:	60/062250
PRIOR FILING DATE:	1997-10-17
PRIOR APPLICATION NUMBER:	60/065186
PRIOR FILING DATE:	1997-11-12
PRIOR APPLICATION NUMBER:	60/065311
PRIOR FILING DATE:	1997-11-13
PRIOR APPLICATION NUMBER:	60/066770
PRIOR FILING DATE:	1997-11-24
PRIOR APPLICATION NUMBER:	60/075945
PRIOR FILING DATE:	1998-02-25
PRIOR APPLICATION NUMBER:	60/078910
PRIOR FILING DATE:	1998-03-20
PRIOR APPLICATION NUMBER:	60/083322
PRIOR FILING DATE:	1998-04-28
PRIOR APPLICATION NUMBER:	60/084600
PRIOR FILING DATE:	1998-05-07
PRIOR APPLICATION NUMBER:	60/087106
PRIOR FILING DATE:	1998-05-28
PRIOR APPLICATION NUMBER:	60/087607
PRIOR FILING DATE:	1998-06-02
PRIOR APPLICATION NUMBER:	60/087609
PRIOR FILING DATE:	1998-06-02
PRIOR APPLICATION NUMBER:	60/087759
PRIOR FILING DATE:	1998-06-02
PRIOR APPLICATION NUMBER:	60/087827
PRIOR FILING DATE:	1998-06-03
PRIOR APPLICATION NUMBER:	60/088021
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088025
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088026
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088028
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088029
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088030
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088033
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088326
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088167
PRIOR FILING DATE:	1998-06-05
PRIOR APPLICATION NUMBER:	60/088202
PRIOR FILING DATE:	1998-06-05
PRIOR APPLICATION NUMBER:	60/088212
PRIOR FILING DATE:	1998-06-05
PRIOR APPLICATION NUMBER:	60/088217
PRIOR FILING DATE:	1998-06-05
PRIOR APPLICATION NUMBER:	60/088655
PRIOR FILING DATE:	1998-06-09
PRIOR APPLICATION NUMBER:	60/088734
PRIOR FILING DATE:	1998-06-10
PRIOR APPLICATION NUMBER:	60/088738
PRIOR FILING DATE:	1998-06-10
PRIOR APPLICATION NUMBER:	60/088742
PRIOR FILING DATE:	1998-06-10
PRIOR APPLICATION NUMBER:	60/088810
PRIOR FILING DATE:	1998-06-10
PRIOR APPLICATION NUMBER:	60/088824
PRIOR FILING DATE:	1998-06-10
PRIOR APPLICATION NUMBER:	60/088826
PRIOR FILING DATE:	1998-06-10
PRIOR APPLICATION NUMBER:	60/088858
PRIOR FILING DATE:	1998-06-11
PRIOR APPLICATION NUMBER:	60/088861

1	PRIOR FILING DATE: 1998-06-11	
2	PRIOR APPLICATION NUMBER: 60/088876	
3	PRIOR FILING DATE: 1998-06-11	
4	PRIOR APPLICATION NUMBER: 60/089105	
5	PRIOR FILING DATE: 1998-06-12	
6	PRIOR APPLICATION NUMBER: 60/089440	
7	PRIOR FILING DATE: 1998-06-16	
8	PRIOR APPLICATION NUMBER: 60/089512	
9	PRIOR FILING DATE: 1998-06-16	
10	PRIOR APPLICATION NUMBER: 60/089514	
11	PRIOR FILING DATE: 1998-06-16	
12	PRIOR APPLICATION NUMBER: 60/089532	
13	PRIOR FILING DATE: 1998-06-17	
14	PRIOR APPLICATION NUMBER: 60/089538	
15	PRIOR FILING DATE: 1998-06-17	
16	PRIOR APPLICATION NUMBER: 60/089598	
17	PRIOR FILING DATE: 1998-06-17	
18	PRIOR APPLICATION NUMBER: 60/089599	
19	PRIOR FILING DATE: 1998-06-17	
20	PRIOR APPLICATION NUMBER: 60/089600	
21	PRIOR FILING DATE: 1998-06-17	
22	PRIOR APPLICATION NUMBER: 60/089653	
23	PRIOR FILING DATE: 1998-06-17	
24	PRIOR APPLICATION NUMBER: 60/089801	
25	PRIOR FILING DATE: 1998-06-18	
26	PRIOR APPLICATION NUMBER: 60/089907	
27	PRIOR FILING DATE: 1998-06-18	
28	PRIOR APPLICATION NUMBER: 60/089908	
29	PRIOR FILING DATE: 1998-06-18	
30	PRIOR APPLICATION NUMBER: 60/089947	
31	PRIOR FILING DATE: 1998-06-19	
32	PRIOR APPLICATION NUMBER: 60/089948	
33	PRIOR FILING DATE: 1998-06-19	
34	PRIOR APPLICATION NUMBER: 60/089952	
35	PRIOR FILING DATE: 1998-06-19	
36	PRIOR APPLICATION NUMBER: 60/090246	
37	PRIOR FILING DATE: 1998-06-22	
38	PRIOR APPLICATION NUMBER: 60/090252	
39	PRIOR FILING DATE: 1998-06-22	
40	PRIOR APPLICATION NUMBER: 60/090254	
41	PRIOR FILING DATE: 1998-06-22	
42	PRIOR APPLICATION NUMBER: 60/090349	
43	PRIOR FILING DATE: 1998-06-23	
44	PRIOR APPLICATION NUMBER: 60/090355	
45	PRIOR FILING DATE: 1998-06-23	
46	PRIOR APPLICATION NUMBER: 60/090429	
47	PRIOR FILING DATE: 1998-06-24	
48	PRIOR APPLICATION NUMBER: 60/090431	
49	PRIOR FILING DATE: 1998-06-24	
50	PRIOR APPLICATION NUMBER: 60/090435	
51	PRIOR FILING DATE: 1998-06-24	
52	PRIOR APPLICATION NUMBER: 60/090444	
53	PRIOR FILING DATE: 1998-06-24	
54	PRIOR APPLICATION NUMBER: 60/090445	
55	PRIOR FILING DATE: 1998-06-24	
56	PRIOR APPLICATION NUMBER: 60/090472	
57	PRIOR FILING DATE: 1998-06-24	
58	PRIOR APPLICATION NUMBER: 60/090535	
59	PRIOR FILING DATE: 1998-06-24	
60	PRIOR APPLICATION NUMBER: 60/090540	
61	PRIOR FILING DATE: 1998-06-24	
62	PRIOR APPLICATION NUMBER: 60/090542	
63	PRIOR FILING DATE: 1998-06-24	
64	PRIOR APPLICATION NUMBER: 60/090557	
65	PRIOR FILING DATE: 1998-06-24	
66	PRIOR APPLICATION NUMBER: 60/090676	
67	PRIOR FILING DATE: 1998-06-25	
68	PRIOR APPLICATION NUMBER: 60/090678	
69	PRIOR FILING DATE: 1998-06-25	
70	PRIOR APPLICATION NUMBER: 60/090690	
71	PRIOR FILING DATE: 1998-06-25	
72	PRIOR APPLICATION NUMBER: 60/090694	
73	PRIOR FILING DATE: 1998-06-25	

;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;
Best Local Similarity 100.0%; Pred. No. 5.5e-289;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGATGTTGGCTGCTCTTTTCTGGTACGTCATTCAGTCTGGAATCTGTCAA 60
Db 1 GAAAGATGTTGGCTGCTCTTTTCTGGTACGTCATTCAGTCTGGAATCTGTCAA 60

Qy 61 CCAGTGCAGAAATGCTTTTAACTGAGACTTAGTATCAGAACAGCTCTGGAGATAA 120
Db 61 CCAGTGCAGAAATGCTTTTAACTGAGACTTAGTATCAGAACAGCTCTGGAGATAA 120

Qy 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGGAGATGATGCTTCCATG 180
Db 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGGAGATGATGCTTCCATG 180

Qy 181 AGAAAGTTCCTGAG 240
Db 181 AGAAAGTTCCTGAG 240

Qy 241 CAGAGGATCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Db 241 CAGAGGATCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300

Qy 301 GTTGAAGTGCATCAGCCATAGGATGAAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Db 301 GTTGAAGTGCATCAGCCATAGGATGAAGAGAGAGAGAGAGAGAGAGAGAGAG 360

Qy 361 AATGACCAAACTCTGGAATTTTAAATTCCTTCCACACTTGCACCCAGGAGACCA 420
Db 361 AATGACCAAACTCTGGAATTTTAAATTCCTTCCACACTTGCACCCAGGAGACCA 420

Qy 421 TCTGTGCCATCTGGAATTTTATATTTTGGTGTGATTTTGCATCATCATAGTGCAT 480
Db 421 TCTGTGCCATCTGGAATTTTATATTTTGGTGTGATTTTGCATCATCATAGTGCAT 480

Qy 481 GCATCTACTGATTTTATCAGGATCTGGCAACCTAGAGAGAGAGAGAGAGAGAG 540
Db 481 GCATCTACTGATTTTATCAGGATCTGGCAACCTAGAGAGAGAGAGAGAGAGAG 540

Qy 541 GTGAGATGCTGAGAGATGAGTGTGAAACATGATCACAATTTGAAATGGCATCCCTCT 600
Db 541 GTGAGATGCTGAGAGATGAGTGTGAAACATGATCACAATTTGAAATGGCATCCCTCT 600

Qy 601 GATCCCTGGAGATGAAGGGGGGCATATTAATGATGCCCTTATGACAGAGATGAGGCG 660
Db 601 GATCCCTGGAGATGAAGGGGGGCATATTAATGATGCCCTTATGACAGAGATGAGGCG 660

Db 601 GATCCCTGGAGATGAAGGGGGGCATATTAATGATGCCCTTATGACAGAGATGAGGCG 660
Qy 661 TCACCCCTCTCTGAAGGGCTGTGTGCTTCTCCTCAAGAAATTAACATTTGTTCTGT 720
Db 661 TCACCCCTCTCTGAAGGGCTGTGTGCTTCTCCTCAAGAAATTAACATTTGTTCTGT 720
Qy 721 GTGACTGCTGAGCATCCTGAAATACCAAGAGCAGATCATATATTTGTTTCCACATCT 780
Db 721 GTGACTGCTGAGCATCCTGAAATACCAAGAGCAGATCATATATTTGTTTCCACATCT 780
Qy 781 CTTTGTATTAATTAATTTTGAATGTGCTTGAAGTGAAGAGCAATCAATATACCCCAAC 840
Db 781 CTTTGTATTAATTAATTTTGAATGTGCTTGAAGTGAAGAGCAATCAATATACCCCAAC 840
Qy 841 ACCACTGAATCATTAAGCTTATTCAGACTCAAAATATTCCTAAATATTTTCTGACAGTA 900
Db 841 ACCACTGAATCATTAAGCTTATTCAGACTCAAAATATTCCTAAATATTTTCTGACAGTA 900
Qy 901 TAGTGTATAAATGCTGCTCATGTGCTATTTAGTATTTAGTATTTAGCAATTTTGAATA 960
Db 901 TAGTGTATAAATGCTGCTCATGTGCTATTTAGTATTTAGTATTTAGCAATTTTGAATA 960
Qy 961 AGATCAGGCATATATATATATTTTTCACACTTCAAGAGCCTAAGGAAAAATAAATTTTCCA 1020
Db 961 AGATCAGGCATATATATATATTTTTCACACTTCAAGAGCCTAAGGAAAAATAAATTTTCCA 1020
Qy 1021 GTGAGAGATACATATAATATATGCTGCTAGAAATCAATTTGAAATGATCTTTTTCAGCATCA 1080
Db 1021 GTGAGAGATACATATAATATATGCTGCTAGAAATCAATTTGAAATGATCTTTTTCAGCATCA 1080
Qy 1081 CTTATATCACCTCTGTATATGACTAAGTAAACAAAAGTGAAGAGTAAATTTGTAATGGA 1140
Db 1081 CTTATATCACCTCTGTATATGACTAAGTAAACAAAAGTGAAGAGTAAATTTGTAATGGA 1140
Qy 1141 TGGATAAAATGGAATTAATCATATACAGGCTGGAATTTTATCTGTTATCACCAACA 1200
Db 1141 TGGATAAAATGGAATTAATCATATACAGGCTGGAATTTTATCTGTTATCACCAACA 1200
Qy 1201 GTTGAATATATTTTCTGAATATCAGCCCTTAATAGGACAATTTATTTGTTGACATTT 1260
Db 1201 GTTGAATATATTTTCTGAATATCAGCCCTTAATAGGACAATTTATTTGTTGACATTT 1260
Qy 1261 TCTCAATTTCTGAAGTCCCAATCTGCTCACTTAATTAAGTAATTAATCACTCTCTTTT 1320
Db 1261 TCTCAATTTCTGAAGTCCCAATCTGCTCACTTAATTAAGTAATTAATCACTCTCTTTT 1320
Qy 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 3

US-09-989-279-386
; Sequence 386, Application US/0989279
; Patent No. US20020072496A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanapeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730FIC56
CURRENT APPLICATION NUMBER: US/09/989,279
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810

PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;
Best Local Similarity 100.0%; Pred. No. 5.5e-289; Mismatches 0; Indels 0; Gaps 0;
Matches 1346; Conservative 0;

QY 1 GAAAGATGTTGGCTGCTCTTTTCTGGTACCTGACCTGCAATGCTGAACTCTGTCAA 60
DB 1 GAAAGATGTTGGCTGCTCTTTTCTGGTACCTGACCTGCAATGCTGAACTCTGTCAA 60

QY 61 CCAGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
DB 61 CCAGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120

QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGCTAGCTTCTCCATG 180
DB 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGCTAGCTTCTCCATG 180

QY 181 AGAAAAGTCCCAACAGAGAGCAACAGAAAATTTCCCATGCTCTACTTTTGCAATGTAACC 240
DB 181 AGAAAAGTCCCAACAGAGAGCAACAGAAAATTTCCCATGCTCTACTTTTGCAATGTAACC 240

QY 241 CAGAGGATCATCTTCTGTTGTTGTGTTACAGACCTTCAAAAATCAGACCTCTCTGCT 300
DB 241 CAGAGGATCATCTTCTGTTGTTGTGTTACAGACCTTCAAAAATCAGACCTCTCTGCT 300

QY 301 GTTGAGGTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACAAATGCTTCTTCTTA 360
DB 301 GTTGAGGTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACAAATGCTTCTTCTTA 360

QY 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCCATGAGCCCA 420
DB 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCCATGAGCCCA 420

QY 421 TCTGTGCCATCTGGAATTTATATTTTGGTGTGATTTTGGATCATCATAGTTCGAAT 480
DB 421 TCTGTGCCATCTGGAATTTATATTTTGGTGTGATTTTGGATCATCATAGTTCGAAT 480

QY 481 GCATCTGATTTTATCAGGATCTGGCAAGCTGAGAACAGAACAGAACCACTCTGAA 540
DB 481 GCATCTGATTTTATCAGGATCTGGCAAGCTGAGAACAGAACAGAACCACTCTGAA 540

DB 481 GCATCTGATTTTATCAGGATCTGGCAAGCTGAGAACAGAACAGAACCACTCTGAA 540
QY 541 GTGGATGACGCTCAAGATAAGTGTGAAAAACATGATCACAATTGAAAAATGCAATCCCTCT 600
DB 541 GTGGATGACGCTCAAGATAAGTGTGAAAAACATGATCACAATTGAAAAATGCAATCCCTCT 600
QY 601 GATCCCTCGGACATGAAAGGGGGGCATATTAAATGATGCTCTCATGACAGAGATGAGAGGC 660
DB 601 GATCCCTCGGACATGAAAGGGGGGCATATTAAATGATGCTCTCATGACAGAGATGAGAGGC 660
QY 661 TCACCCCTCTCTGAAGGGGCTGTTGTTCTCTCAAGAAAATTAACAATTTGTTCTCTGT 720
DB 661 TCACCCCTCTCTGAAGGGGCTGTTGTTCTCTCAAGAAAATTAACAATTTGTTCTCTGT 720
QY 721 GTGACTGTGACATCTCTGAAAATACCAAGACGAGATCATATATTTTGTTCACATCTT 780
DB 721 GTGACTGTGACATCTCTGAAAATACCAAGACGAGATCATATATTTTGTTCACATCTT 780
QY 781 CTTTGTGTAATAATTTTGAATGCTTGAAGTGAAGGAAAGCAATCAATTTATACCAAC 840
DB 781 CTTTGTGTAATAATTTTGAATGCTTGAAGTGAAGGAAAGCAATCAATTTATACCAAC 840
QY 841 ACCACTGAAAATCATATAAGCTATTTCACGACTCAAAATATTCTAAAATATTTTCTGACAGTA 900
DB 841 ACCACTGAAAATCATATAAGCTATTTCACGACTCAAAATATTCTAAAATATTTTCTGACAGTA 900
QY 901 TAGTGTATAAATGTGTCTCATGTGTTAGTATTGTTAGTATTGTTAGTATTGTTAGTAAATA 960
DB 901 TAGTGTATAAATGTGTCTCATGTGTTAGTATTGTTAGTATTGTTAGTATTGTTAGTAAATA 960
QY 961 AGATCAGGATATGATATATATTTTTCACACTTCAAGACCTTAGGAAAATTAATTTTCCA 1020
DB 961 AGATCAGGATATGATATATATTTTTCACACTTCAAGACCTTAGGAAAATTAATTTTCCA 1020
QY 1021 GTGGAGAAATACATAATAATGTTGTAGAAATCAATTGAAAATGGATCTTTTTCACCAATCA 1080
DB 1021 GTGGAGAAATACATAATAATGTTGTAGAAATCAATTGAAAATGGATCTTTTTCACCAATCA 1080
QY 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGAGTAAATTTGTTAAATGGA 1140
DB 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGAGTAAATTTGTTAAATGGA 1140
QY 1141 TGGATAAATAATGGAATTAATCTCATATACAGGGTGGAAATTTTATCTCTGTTATCACCAACA 1200
DB 1141 TGGATAAATAATGGAATTAATCTCATATACAGGGTGGAAATTTTATCTCTGTTATCACCAACA 1200
QY 1201 GTTGATTTATATTTTCTGAATATCAGCCCTTAATAGGACAATTTCTATTTGTTGACCAAT 1260
DB 1201 GTTGATTTATATTTTCTGAATATCAGCCCTTAATAGGACAATTTCTATTTGTTGACCAAT 1260
QY 1261 TCTACATTTGTAAAAGTCCAAATCTGTGCTAACTTAATAAAGTAAATAAATCATCTCTTTT 1320
DB 1261 TCTACATTTGTAAAAGTCCAAATCTGTGCTAACTTAATAAAGTAAATAAATCATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
DB 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 4
US-09-989-727-386
; Sequence 386, Application US/09989727
; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Iuc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC65
CURRENT APPLICATION NUMBER: US/09/989,727
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24

APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC70
CURRENT APPLICATION NUMBER: US/09/989, 731
CURRENT FILING DATE: 2001-11-20
PRIORITY APPLICATION NUMBER: 60/049787
PRIORITY FILING DATE: 1997-06-16
PRIORITY APPLICATION NUMBER: 60/062250
PRIORITY FILING DATE: 1997-10-17
PRIORITY APPLICATION NUMBER: 60/065186
PRIORITY FILING DATE: 1997-11-12
PRIORITY APPLICATION NUMBER: 60/065311
PRIORITY FILING DATE: 1997-11-13
PRIORITY APPLICATION NUMBER: 60/066770
PRIORITY FILING DATE: 1997-11-24
PRIORITY APPLICATION NUMBER: 60/075945
PRIORITY FILING DATE: 1998-02-25
PRIORITY APPLICATION NUMBER: 60/078910
PRIORITY FILING DATE: 1998-03-20
PRIORITY APPLICATION NUMBER: 60/083322
PRIORITY FILING DATE: 1998-04-28
PRIORITY APPLICATION NUMBER: 60/084600
PRIORITY FILING DATE: 1998-05-07
PRIORITY APPLICATION NUMBER: 60/087106
PRIORITY FILING DATE: 1998-05-28
PRIORITY APPLICATION NUMBER: 60/087607
PRIORITY FILING DATE: 1998-06-02
PRIORITY APPLICATION NUMBER: 60/087609
PRIORITY FILING DATE: 1998-06-02
PRIORITY APPLICATION NUMBER: 60/087759
PRIORITY FILING DATE: 1998-06-02
PRIORITY APPLICATION NUMBER: 60/087827
PRIORITY FILING DATE: 1998-06-03
PRIORITY APPLICATION NUMBER: 60/088021
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088025
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088026
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088028
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088029
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088030
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088033
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088326
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088167
PRIORITY FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: 60/088202
PRIORITY FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: 60/088212
PRIORITY FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: 60/088217
PRIORITY FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: 60/088655
PRIORITY FILING DATE: 1998-06-09
PRIORITY APPLICATION NUMBER: 60/088734
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088738
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088742
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088810
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088824
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088826
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088858
PRIORITY FILING DATE: 1998-06-11
PRIORITY APPLICATION NUMBER: 60/088861
PRIORITY FILING DATE: 1998-06-11
PRIORITY APPLICATION NUMBER: 60/088876
PRIORITY FILING DATE: 1998-06-11
PRIORITY APPLICATION NUMBER: 60/089105
PRIORITY FILING DATE: 1998-06-12
PRIORITY APPLICATION NUMBER: 60/089440
PRIORITY FILING DATE: 1998-06-16
PRIORITY APPLICATION NUMBER: 60/089512
PRIORITY FILING DATE: 1998-06-16
PRIORITY APPLICATION NUMBER: 60/089514
PRIORITY FILING DATE: 1998-06-16
PRIORITY APPLICATION NUMBER: 60/089532
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089538
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089598
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089599
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089600
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089653
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089801
PRIORITY FILING DATE: 1998-06-18
PRIORITY APPLICATION NUMBER: 60/089907
PRIORITY FILING DATE: 1998-06-18
PRIORITY APPLICATION NUMBER: 60/089908
PRIORITY FILING DATE: 1998-06-18
PRIORITY APPLICATION NUMBER: 60/089947
PRIORITY FILING DATE: 1998-06-19
PRIORITY APPLICATION NUMBER: 60/089948
PRIORITY FILING DATE: 1998-06-19
PRIORITY APPLICATION NUMBER: 60/089952
PRIORITY FILING DATE: 1998-06-19
PRIORITY APPLICATION NUMBER: 60/090246
PRIORITY FILING DATE: 1998-06-22
PRIORITY APPLICATION NUMBER: 60/090252
PRIORITY FILING DATE: 1998-06-22
PRIORITY APPLICATION NUMBER: 60/090254
PRIORITY FILING DATE: 1998-06-22
PRIORITY APPLICATION NUMBER: 60/090349
PRIORITY FILING DATE: 1998-06-23
PRIORITY APPLICATION NUMBER: 60/090355
PRIORITY FILING DATE: 1998-06-23
PRIORITY APPLICATION NUMBER: 60/090429
PRIORITY FILING DATE: 1998-06-24
PRIORITY APPLICATION NUMBER: 60/090431
PRIORITY FILING DATE: 1998-06-24

```

; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 1346; DB 9; Length 1346;
Best Local Similarity 100.0%; Pred. No. 5.5e-289;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGATGTTGGTGCTCTTTTCTGGTGAAGTGCATTCATGCTGGAAGTCTGTCAA 60
Db 1 GAAAGATGTTGGTGCTCTTTTCTGGTGAAGTGCATTCATGCTGGAAGTCTGTCAA 60

Qy 61 CCAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAA 120
Db 61 CCAGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAA 120

Qy 121 GCATATGCTGGGATACCAATGAAATACCTCTTCAAAGCGATGGTAGCTTCTCCATG 180
Db 121 GCATATGCTGGGATACCAATGAAATACCTCTTCAAAGCGATGGTAGCTTCTCCATG 180

Qy 181 AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAA 240
Db 181 AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTGCAATGTAA 240

Qy 241 CAGAGGTATCATTTCTGGTTGTGTTACAGACCCCTTCAAAAAATCACACCCCTCTCTGCT 300
Db 241 CAGAGGTATCATTTCTGGTTGTGTTACAGACCCCTTCAAAAAATCACACCCCTCTCTGCT 300
```

```

Db 241 CAGAGGTATCATTTCTGGTTGTGTTACAGACCCCTTCAAAAAATCACACCCCTCTCTGCT 300
Qy 301 GTTGAGGTGCAATCAGCCATTAAGAAATGAACAGAAACCGGATCAACAATGCTTCTTCTA 360
Db 301 GTTGAGGTGCAATCAGCCATTAAGAAATGAACAGAAACCGGATCAACAATGCTTCTTCTA 360
Qy 361 AATGACCAAACTCTGGAAATTTTAAAAATCCTTCCACACTTGCACCCACCCATGACCCA 420
Db 361 AATGACCAAACTCTGGAAATTTTAAAAATCCTTCCACACTTGCACCCACCCATGACCCA 420
Qy 421 TCTGTGCCCATCTCGAATTTATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
Db 421 TCTGTGCCCATCTCGAATTTATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
Qy 481 GCACCTACTGATTTTATCAGGGATCTGSCAAAGTAGAAGAAAGAAACAAAGAACCATCTGAA 540
Db 481 GCACCTACTGATTTTATCAGGGATCTGSCAAAGTAGAAGAAAGAAACAAAGAACCATCTGAA 540
Qy 541 GTGGATGACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAATTTGGAATTTCCCTCT 600
Db 541 GTGGATGACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAATTTGGAATTTCCCTCT 600
Qy 601 GATCCCTCTGACATGAAGGGGGGCATATTAATGATGCCCTTCATGACAGAGGATGAGAGC 660
Db 601 GATCCCTCTGACATGAAGGGGGGCATATTAATGATGCCCTTCATGACAGAGGATGAGAGC 660
Qy 661 TCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCCCTCAAGAAATTTAAACATTTGTTCTGT 720
Db 661 TCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCCCTCAAGAAATTTAAACATTTGTTCTGT 720
Qy 721 GTGACTGCTGAGCATCTGAAATCCAAAGACAGCATATATTTTGTTCACCATCTCT 780
Db 721 GTGACTGCTGAGCATCTGAAATCCAAAGACAGCATATATATTTTGTTCACCATCTCT 780
Qy 781 CTTTTGTAATAAATTTTGAATGCTTCAAGAGTGAAGAGCAATCAATATATACCCCAAC 840
Db 781 CTTTTGTAATAAATTTTGAATGCTTCAAGAGTGAAGAGCAATCAATATATACCCCAAC 840
Qy 841 ACCACTGAAATCATAAGCTATTCAGGACTCAAAAATATTTCTAAATATTTTCTGCAGTA 900
Db 841 ACCACTGAAATCATAAGCTATTCAGGACTCAAAAATATTTCTAAATATTTTCTGCAGTA 900
Qy 901 TAGTGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Db 901 TAGTGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Qy 961 AGATCAGGCATATCTATATATTTTCAACTTTCAAGAGCTTAAGGAAAAATAAATTTTCCA 1020
Db 961 AGATCAGGCATATCTATATATTTTCAACTTTCAAGAGCTTAAGGAAAAATAAATTTTCCA 1020
Qy 1021 GTGAGAAATACATATAATGCTGTAAGAAATCAATTTGAAATTTGATGCTTTTGAAGATCA 1080
Db 1021 GTGAGAAATACATATAATGCTGTAAGAAATCAATTTGAAATTTGATGCTTTTGAAGATCA 1080
Qy 1081 CTTATATCACTCTGCTATATGACTAAGTAAACAAAGAGTGAAGTAAATTTTGAAGTGA 1140
Db 1081 CTTATATCACTCTGCTATATGACTAAGTAAACAAAGAGTGAAGTAAATTTTGAAGTGA 1140
Qy 1141 TGGATTAATAATGGAATTAATCTATATACAGGGTGAATTTTATCTGTTATCAACCAACA 1200
Db 1141 TGGATTAATAATGGAATTAATCTATATACAGGGTGAATTTTATCTGTTATCAACCAACA 1200
Qy 1201 GTTGATATATATTTTCTGAATATACAGCCCTTAATAGGAAATTTCTATTTGTTGACCAT 1260
Db 1201 GTTGATATATATTTTCTGAATATACAGCCCTTAATAGGAAATTTCTATTTGTTGACCAT 1260
Qy 1261 TCTCAATTTGTAAGTCCCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
Db 1261 TCTCAATTTGTAAGTCCCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
Qy 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
```

RESULT 6
US-09-989-732-386
Sequence 386, Application US/09989732
Patent No. US20020123463A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc.
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Klijavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C57
CURRENT APPLICATION NUMBER: US/09/989, 732
PRIORITY FILING DATE: 2001-11-19
PRIORITY APPLICATION NUMBER: 60/049787
PRIORITY FILING DATE: 1997-06-16
PRIORITY APPLICATION NUMBER: 60/062250
PRIORITY FILING DATE: 1997-10-17
PRIORITY APPLICATION NUMBER: 60/065186
PRIORITY FILING DATE: 1997-11-12
PRIORITY APPLICATION NUMBER: 60/065311
PRIORITY FILING DATE: 1997-11-13
PRIORITY APPLICATION NUMBER: 60/066770
PRIORITY FILING DATE: 1997-11-24
PRIORITY APPLICATION NUMBER: 60/075945
PRIORITY FILING DATE: 1998-02-25
PRIORITY APPLICATION NUMBER: 60/078910
PRIORITY FILING DATE: 1998-03-20
PRIORITY APPLICATION NUMBER: 60/083322
PRIORITY FILING DATE: 1998-04-28
PRIORITY APPLICATION NUMBER: 60/084600
PRIORITY FILING DATE: 1998-05-07
PRIORITY APPLICATION NUMBER: 60/087106
PRIORITY FILING DATE: 1998-05-28
PRIORITY APPLICATION NUMBER: 60/087607
PRIORITY FILING DATE: 1998-06-02
PRIORITY APPLICATION NUMBER: 60/087609
PRIORITY FILING DATE: 1998-06-02
PRIORITY APPLICATION NUMBER: 60/087759
PRIORITY FILING DATE: 1998-06-02
PRIORITY APPLICATION NUMBER: 60/087827
PRIORITY FILING DATE: 1998-06-03
PRIORITY APPLICATION NUMBER: 60/088021
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088025
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088026
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088028
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088029

PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088030
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088033
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088326
PRIORITY FILING DATE: 1998-06-04
PRIORITY APPLICATION NUMBER: 60/088167
PRIORITY FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: 60/088202
PRIORITY FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: 60/088212
PRIORITY FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: 60/088217
PRIORITY FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: 60/088655
PRIORITY FILING DATE: 1998-06-09
PRIORITY APPLICATION NUMBER: 60/088734
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088738
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088742
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088810
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088824
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088826
PRIORITY FILING DATE: 1998-06-10
PRIORITY APPLICATION NUMBER: 60/088858
PRIORITY FILING DATE: 1998-06-11
PRIORITY APPLICATION NUMBER: 60/088861
PRIORITY FILING DATE: 1998-06-11
PRIORITY APPLICATION NUMBER: 60/088876
PRIORITY FILING DATE: 1998-06-11
PRIORITY APPLICATION NUMBER: 60/089105
PRIORITY FILING DATE: 1998-06-12
PRIORITY APPLICATION NUMBER: 60/089440
PRIORITY FILING DATE: 1998-06-16
PRIORITY APPLICATION NUMBER: 60/089512
PRIORITY FILING DATE: 1998-06-16
PRIORITY APPLICATION NUMBER: 60/089514
PRIORITY FILING DATE: 1998-06-16
PRIORITY APPLICATION NUMBER: 60/089532
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089538
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089598
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089599
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089600
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089653
PRIORITY FILING DATE: 1998-06-17
PRIORITY APPLICATION NUMBER: 60/089801
PRIORITY FILING DATE: 1998-06-18
PRIORITY APPLICATION NUMBER: 60/089907
PRIORITY FILING DATE: 1998-06-18
PRIORITY APPLICATION NUMBER: 60/089908
PRIORITY FILING DATE: 1998-06-18
PRIORITY APPLICATION NUMBER: 60/089947
PRIORITY FILING DATE: 1998-06-19
PRIORITY APPLICATION NUMBER: 60/089948
PRIORITY FILING DATE: 1998-06-19
PRIORITY APPLICATION NUMBER: 60/089952
PRIORITY FILING DATE: 1998-06-19
PRIORITY APPLICATION NUMBER: 60/090246
PRIORITY FILING DATE: 1998-06-22
PRIORITY APPLICATION NUMBER: 60/090252
PRIORITY FILING DATE: 1998-06-22
PRIORITY APPLICATION NUMBER: 60/090254
PRIORITY FILING DATE: 1998-06-22

;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;

Best Local Similarity 100.0%; Pred. No. 5.5e-289;

Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGAATCAATGCTGAACCTCTGTCAA 60
DB 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGAATCAATGCTGAACCTCTGTCAA 60
QY 61 CCAGGTGAGAAAATGCTTTTAAAGTGAAGTCTAGTATCAGAAACAGCTCTGGGAGATAA 120
DB 61 CCAGGTGAGAAAATGCTTTTAAAGTGAAGTCTAGTATCAGAAACAGCTCTGGGAGATAA 120
QY 121 GCATATGCTGGATACCAATGAAGATACCTCTTCAAAGCGATGGTAGCTTTCTCCATG 180

DB GCATATGCTGGATACCAATGAAGATACCTCTTCAAAGCGATGGTAGCTTTCTCCATG 180
QY AGAAAAGTTCCCAACAGAGAACAAACAGAAATTTCCCATGTCTACTTTGCAATGAAC 240
DB AGAAAAGTTCCCAACAGAGAACAAACAGAAATTTCCCATGTCTACTTTGCAATGAAC 240
QY CAGAGGTATCATCTCTGGTTTGTGGTTTACAGACCCCTTCAAAAATCACAACCTTCTGCT 300
DB CAGAGGTATCATCTCTGGTTTGTGGTTTACAGACCCCTTCAAAAATCACAACCTTCTGCT 300
QY GTTGAGGTGCAATCAGCCATAGAATGAACAGAAACCGGATCAACAAATGCCCTTTCTTCTA 360
DB GTTGAGGTGCAATCAGCCATAGAATGAACAGAAACCGGATCAACAAATGCCCTTTCTTCTA 360
QY AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGGACCAACCCATGAGACCA 420
DB AATGACCAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGGACCAACCCATGAGACCA 420
QY TCTGTGCCCATCTGGATTTATATATTTGGTGTGATATTTGGCATCATCATAGTTGCAATT 480
DB TCTGTGCCCATCTGGATTTATATATTTGGTGTGATATTTGGCATCATCATAGTTGCAATT 480
QY GCATCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 540
DB GCATCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 540
QY GTTGATGACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAAATGSCATCCCTCT 600
DB GTTGATGACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAAATGSCATCCCTCT 600
QY GATCCCTTGGACATGAAGGGGGGCATATTTAATGATGCCCTTCATGACAGAGATGAGAGGC 660
DB GATCCCTTGGACATGAAGGGGGGCATATTTAATGATGCCCTTCATGACAGAGATGAGAGGC 660
QY TCACCCCTCTCTGAAGGGCTGTGTCTCTCTCAAGAAATTTAAACATTTGTTCTGT 720
DB TCACCCCTCTCTGAAGGGCTGTGTCTCTCTCAAGAAATTTAAACATTTGTTCTGT 720
QY GTGACTGTGAGCATCTCGAAATACCAAGAGCAGATCATATATTTTGTTCACATCTT 780
DB GTGACTGTGAGCATCTCGAAATACCAAGAGCAGATCATATATTTTGTTCACATCTT 780
QY CTTTGTGTAATAATTTGAAATGCTTGAAGTGAAGAAAGCAATCAATTAACCCCAAC 840
DB CTTTGTGTAATAATTTGAAATGCTTGAAGTGAAGAAAGCAATCAATTAACCCCAAC 840
QY ACCACTGAAATCATAAAGCTTATTCAGACTCAAAATATTCTAAATATTTTTCGACAGTA 900
DB ACCACTGAAATCATAAAGCTTATTCAGACTCAAAATATTCTAAATATTTTTCGACAGTA 900
QY TAGTGTATAAATGTGTCATGTGGTATTTGTAGTTATTTGATTTAAGCATTTTGTAGAAATA 960
DB TAGTGTATAAATGTGTCATGTGGTATTTGTAGTTATTTGATTTAAGCATTTTGTAGAAATA 960
QY AGATCAGGCATATGTATATATTTTTCACACTTCAAGACCTTAAGGAAAAATTAATTTTCCA 1020
DB AGATCAGGCATATGTATATATTTTTCACACTTCAAGACCTTAAGGAAAAATTAATTTTCCA 1020
QY GTTGAGAAATACATATAATATGTGTAGAAATCAATTTGAAAATGATCTTTTTCACCATCA 1080
DB GTTGAGAAATACATATAATATGTGTAGAAATCAITGAAAATGATCTTTTTCACCATCA 1080
QY CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGATTAATTTGTAAATGGA 1140
DB CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGATTAATTTGTAAATGGA 1140
QY TGGATAAATAATGGAATTAATCTATATACAGGGTGGAAATTTTATCTGTGTATACACCAACA 1200
DB TGGATAAATAATGGAATTAATCTATATACAGGGTGGAAATTTTATCTGTGTATACACCAACA 1200
QY GTTGATTAATATATTTTCTGAAATATCAGCCCTTAATAGGACAAATTTCTATTTGTTGACCAT 1260
DB GTTGATTAATATATTTTCTGAAATATCAGCCCTTAATAGGACAAATTTCTATTTGTTGACCAT 1260

QY 1261 TCTACAATTGTAAAGTCCAACTCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT 1320
|||||
Db 1261 TCTACAATTGTAAAGTCCAACTCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
|||||
Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 7

US-09-991-073-386
; Sequence 386, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC15
; CURRENT APPLICATION NUMBER: US/09/991,073
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021

; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19

;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;

Best Local Similarity 100.0%; Pred. No. 5.5e-289;

Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAAGAAATGTTGGCTCTCTTTTCTGGTGACATGCCCAATCATGCTGAACATCTCTGTCAA 60
|||||

Db 1 GAAAGAAATGTTGGCTCTCTTTTCTGGTGACATGCCCAATCATGCTGAACATCTCTGTCAA 60
QY 61 CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAAA 120
|||||
Db 61 CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAAA 120
QY 121 GCATATGCTGGGATACCAATGAAGTAATCCCTCTTCAAAGCGATGGTAGCTTCTCCATG 180
|||||
Db 121 GCATATGCTGGGATACCAATGAAGTAATCCCTCTTCAAAGCGATGGTAGCTTCTCCATG 180
QY 181 AGAAAAGTTCACACAGAGAACCAACAGAAAATTTCCCATGTCCTCTCTTTGCAATGTAACC 240
|||||
Db 181 AGAAAAGTTCACACAGAGAACCAACAGAAAATTTCCCATGTCCTCTCTTTGCAATGTAACC 240
QY 241 CAGAGGTATCATCTCTGGTTTGTGGTTTACAGACCCCTTCAAAAATCACAACCTTCTGCT 300
|||||
Db 241 CAGAGGTATCATCTCTGGTTTGTGGTTTACAGACCCCTTCAAAAATCACAACCTTCTGCT 300
QY 301 GTTGAGGTGCATCAGCCATAGAATGAACAGAACCCGGATCAACATGCTTCTTCTTA 360
|||||
Db 301 GTTGAGGTGCATCAGCCATAGAATGAACAGAACCCGGATCAACATGCTTCTTCTTA 360
QY 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACACCCATGGACCCA 420
|||||
Db 361 AATGACCAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACACCCATGGACCCA 420
QY 421 TCTGTGCCCATCTCGATTAATATATTTGGTGTGATATTTTGGCATCATCATAGTTGCAATT 480
|||||
Db 421 TCTGTGCCCATCTCGATTAATATATTTGGTGTGATATTTTGGCATCATCATAGTTGCAATT 480
QY 481 GCATCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 540
|||||
Db 481 GCATCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 540
QY 541 GTGGATGACGCTGAAGATAAGTGCAAAACATGATCAAAATTTGAAATGCAATCCCTCT 600
|||||
Db 541 GTGGATGACGCTGAAGATAAGTGCAAAACATGATCAAAATTTGAAATGCAATCCCTCT 600
QY 601 GATCCCTGGACATGAAGGGGGGCATATTAATGATGCCCTTCAAGAGAGATGAGAGGC 660
|||||
Db 601 GATCCCTGGACATGAAGGGGGGCATATTAATGATGCCCTTCAAGAGAGATGAGAGGC 660
QY 661 TCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCAAGAAATTTAAACATTTGTTTCTGT 720
|||||
Db 661 TCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCAAGAAATTTAAACATTTGTTTCTGT 720
QY 721 GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTGTTTCCACCATCTT 780
|||||
Db 721 GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTGTTTCCACCATCTT 780
QY 781 CTTTTGTAATAAATTTTGAATGTGCTTGAAGTGAAGAGCAATCAATATATACCCACCAAC 840
|||||
Db 781 CTTTTGTAATAAATTTTGAATGTGCTTGAAGTGAAGAGCAATCAATATATACCCACCAAC 840
QY 841 ACCACTGAATCATAGCTATTTCAGGACTCAAAAATATTTCTAAAATATTTTCTGACAGTA 900
|||||
Db 841 ACCACTGAATCATAGCTATTTCAGGACTCAAAAATATTTCTAAAATATTTTCTGACAGTA 900
QY 901 TAGTGATAAATGTGCTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 960
|||||
Db 901 TAGTGATAAATGTGCTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 960
QY 961 AGATCAGGCATATGATATATTTTTCACACTTCAAGACCTTAAGGAAATAAATTTTCCA 1020
|||||
Db 961 AGATCAGGCATATGATATATTTTTCACACTTCAAGACCTTAAGGAAATAAATTTTCCA 1020
QY 1021 GTGAGATACATATAATATGTTGTAGAAATCATTTGAAATGATGATCTTTTGTGAGATCA 1080
|||||
Db 1021 GTGAGATACATATAATATGTTGTAGAAATCATTTGAAATGATGATCTTTTGTGAGATCA 1080
QY 1081 CTTATATACCTCTGTATATGACTAAGTAAACAAAGTGAGAGTAATTTATTTGTAATGGA 1140
|||||
Db 1081 CTTATATACCTCTGTATATGACTAAGTAAACAAAGTGAGAGTAATTTATTTGTAATGGA 1140

```
QY 1141 TGGATATAAATGGAATTAATCTATATACAGGGTGAATTTTATCTCTGTTATCAACCAACA 1200
Db 1141 TGGATATAAATGGAATTAATCTATATACAGGGTGAATTTTATCTCTGTTATCAACCAACA 1200
QY 1201 GTTGATATATATTTTCTGAATATCAGCCCTAATAGGACAAATCTCTATTTGTTGACCAAT 1260
Db 1201 GTTGATATATATTTTCTGAATATCAGCCCTAATAGGACAAATCTCTATTTGTTGACCAAT 1260
QY 1261 TCTACAATTTGTAAGAGTCCAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTTT 1320
Db 1261 TCTACAATTTGTAAGAGTCCAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
Db 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 8
US-09-990-442-386
; Sequence 386, Application US/09990442
; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC8
; CURRENT APPLICATION NUMBER: US/09/990,442
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
```



```

: PRIOR APPLICATION NUMBER: 60/089907
: PRIOR FILING DATE: 1998-06-18
: PRIOR APPLICATION NUMBER: 60/089908
: PRIOR FILING DATE: 1998-06-18
: PRIOR APPLICATION NUMBER: 60/089947
: PRIOR FILING DATE: 1998-06-19
: PRIOR APPLICATION NUMBER: 60/089948
: PRIOR FILING DATE: 1998-06-19
: PRIOR APPLICATION NUMBER: 60/089952
: PRIOR FILING DATE: 1998-06-19
: PRIOR APPLICATION NUMBER: 60/090246
: PRIOR FILING DATE: 1998-06-22
: PRIOR APPLICATION NUMBER: 60/090252
: PRIOR FILING DATE: 1998-06-22
: PRIOR APPLICATION NUMBER: 60/090254
: PRIOR FILING DATE: 1998-06-22
: PRIOR APPLICATION NUMBER: 60/090349
: PRIOR FILING DATE: 1998-06-23
: PRIOR APPLICATION NUMBER: 60/090355
: PRIOR FILING DATE: 1998-06-23
: PRIOR APPLICATION NUMBER: 60/090429
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090431
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090435
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090444
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090445
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090472
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090535
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090540
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090542
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090557
: PRIOR FILING DATE: 1998-06-24
: PRIOR APPLICATION NUMBER: 60/090676
: PRIOR FILING DATE: 1998-06-25
: PRIOR APPLICATION NUMBER: 60/090678
: PRIOR FILING DATE: 1998-06-25
: PRIOR APPLICATION NUMBER: 60/090690
: PRIOR FILING DATE: 1998-06-25
: PRIOR APPLICATION NUMBER: 60/090694
: PRIOR FILING DATE: 1998-06-25
: PRIOR APPLICATION NUMBER: 60/090695
: PRIOR FILING DATE: 1998-06-25
: PRIOR APPLICATION NUMBER: 60/090696
: PRIOR FILING DATE: 1998-06-25
: PRIOR APPLICATION NUMBER: 60/090862
: PRIOR FILING DATE: 1998-06-26
: PRIOR APPLICATION NUMBER: 60/090863
: PRIOR FILING DATE: 1998-06-26
: PRIOR APPLICATION NUMBER: 60/091360
: PRIOR FILING DATE: 1998-07-01
: PRIOR APPLICATION NUMBER: 60/091478
: PRIOR FILING DATE: 1998-07-02
: PRIOR APPLICATION NUMBER: 60/091544
: PRIOR FILING DATE: 1998-07-01
: PRIOR APPLICATION NUMBER: 60/091519
: PRIOR FILING DATE: 1998-07-02
: PRIOR APPLICATION NUMBER: 60/091626
: PRIOR FILING DATE: 1998-07-02
: PRIOR APPLICATION NUMBER: 60/091633
: PRIOR FILING DATE: 1998-07-02
: PRIOR APPLICATION NUMBER: 60/091978
: PRIOR FILING DATE: 1998-07-07
: PRIOR APPLICATION NUMBER: 60/091982
: PRIOR FILING DATE: 1998-07-07
: PRIOR APPLICATION NUMBER: 60/092182
: PRIOR FILING DATE: 1998-07-07

: PRIOR FILING DATE: 1998-07-09
: Query Match 100.0%; Score 1346; DB 9; Length 1346;
: Best Local Similarity 100.0%; Pred. No. 5.5e-289;
: Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGATGTTGTGGCTGCTCTTTTCTGTGTGAGTGCATTCATGCTGAACTCTGTCAA 60
Db 1 GAAAGATGTTGTGGCTGCTCTTTTCTGTGTGAGTGCATTCATGCTGAACTCTGTCAA 60

Qy 61 CCAGTGTGAGAAATGCTTTTAAAGTGAAGTCTTAGTATCAGAACAGCTCTGGGAGATAA 120
Db 61 CCAGTGTGAGAAATGCTTTTAAAGTGAAGTCTTAGTATCAGAACAGCTCTGGGAGATAA 120

Qy 121 GCATATGCTGGGATACCAATGAAAGATACCTCTTCAAAGCGATGGTAGCTTTCTCCATG 180
Db 121 GCATATGCTGGGATACCAATGAAAGATACCTCTTCAAAGCGATGGTAGCTTTCTCCATG 180

Qy 181 AGAAAGTTCCTCCAAAGAGAGCAAGCAAAATTTCCCATGTCTACTTTGCAATGTAAAC 240
Db 181 AGAAAGTTCCTCCAAAGAGAGCAAGCAAAATTTCCCATGTCTACTTTGCAATGTAAAC 240

Qy 241 CAGAGGTATCATCTCTGTTTGTGTTTACAGACCTTCCAAAGAAATCAACCCCTTCCTGCT 300
Db 241 CAGAGGTATCATCTCTGTTTGTGTTTACAGACCTTCCAAAGAAATCAACCCCTTCCTGCT 300

Qy 301 GTTGAGGTGCAATCAGCCATAGAAATGAAACCAAGAACCGGATCAACATGCTTTCTTCTA 360
Db 301 GTTGAGGTGCAATCAGCCATAGAAATGAAACCAAGAACCGGATCAACATGCTTTCTTCTA 360

Qy 361 AATGACCAACTCTGGAATTTTAAATTCCTTCCACACTTTCACACCCCAACCCCAACCCA 420
Db 361 AATGACCAACTCTGGAATTTTAAATTCCTTCCACACTTTCACACCCCAACCCCAACCCA 420

Qy 421 TCTGTGCCATCTCGATTTATATATTTGGTGTGATATTTTGCATCATCATAGTTCGAATT 480
Db 421 TCTGTGCCATCTCGATTTATATATTTGGTGTGATATTTTGCATCATCATAGTTCGAATT 480

Qy 481 GCATCTACTGATTTTATCAGGGATCTGGCAAGTGAAGAAAGAAACCAAGAACCATCTGAA 540
Db 481 GCATCTACTGATTTTATCAGGGATCTGGCAAGTGAAGAAAGAAACCAAGAACCATCTGAA 540

Qy 541 GTGATGAGCTGGAAGATAAGTGTGAAACATGATCAATTTGAAATGGCATTCCTCTCT 600
Db 541 GTGATGAGCTGGAAGATAAGTGTGAAACATGATCAATTTGAAATGGCATTCCTCTCT 600

Qy 601 GATCCCTGGACATCAAGGGGGGCTATTTATGATGCTTCAATGAGGATGAGAGGC 660
Db 601 GATCCCTGGACATCAAGGGGGGCTATTTATGATGCTTCAATGAGGATGAGAGGC 660

Qy 661 TCACCCCTCTCTGAAAGGGCTGTGTTCTGCTTCCCTCAAGAAATTAACATTTGTTCTCT 720
Db 661 TCACCCCTCTCTGAAAGGGCTGTGTTCTGCTTCCCTCAAGAAATTAACATTTGTTCTCT 720

Qy 721 GTGATGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780
Db 721 GTGATGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTTCACCATCTT 780

Qy 781 CTTTGTAAATAAATTTTGAATGCTTGAAGTGAAGCAATCAATATATACCCCAAC 840
Db 781 CTTTGTAAATAAATTTTGAATGCTTGAAGTGAAGCAATCAATATATACCCCAAC 840

Qy 841 ACCACTGAAATCATAGCTATTTCAGGACTCAAAATATTCTAAATATTCTGACAGTA 900
Db 841 ACCACTGAAATCATAGCTATTTCAGGACTCAAAATATTCTAAATATTCTGACAGTA 900

Qy 901 TAGTGATAAATGTGTCATGTGTTATTTGTAGTTATTTAGCATTTTGTAGAAATA 960
Db 901 TAGTGATAAATGTGTCATGTGTTATTTGTAGTTATTTGTAGTTATTTGTAGAAATA 960

Qy 961 AGATCAGGCATATGTATATATTTTACACACTTCAAGAGCTAAGGAAATTAATTTTCCA 1020
Db 961 AGATCAGGCATATGTATATATTTTACACACTTCAAGAGCTAAGGAAATTAATTTTCCA 1020

```

QY 1021 GTGGGAATACATATATATGTTAGAAATCAATGAAATGATCCCTTTTGGACATCA 1080
DB 1021 GTGGGAATACATATATATGTTAGAAATCAATGAAATGATCCCTTTTGGACATCA 1080
QY 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAAGTAATTAATGTAATGGA 1140
DB 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAAGTAATTAATGTAATGGA 1140
QY 1141 TGGATAAAATGGAATTAATCAATATACAGGGTGGAAATTTTATCCCTGTTATCAACAAACA 1200
DB 1141 TGGATAAAATGGAATTAATCAATATACAGGGTGGAAATTTTATCCCTGTTATCAACAAACA 1200
QY 1201 GTTGATTTATATATTTCTCAATATACAGCCCTTAATAGGCAATTCATTTGTTGACCAT 1260
DB 1201 GTTGATTTATATATTTCTCAATATACAGCCCTTAATAGGCAATTCATTTGTTGACCAT 1260
QY 1261 TCTACAATTTGTAAGTCCATCTGTGCTAACTTAATAAGTAATAATCAATCTCTTTT 1320
DB 1261 TCTACAATTTGTAAGTCCATCTGTGCTAACTTAATAAGTAATAATCAATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
DB 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 9

US-09-991-163-386
; Sequence 386, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC17
; CURRENT APPLICATION NUMBER: US/09/991,163
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910

; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088555
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17

; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626

; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;
Best Local Similarity 100.0%; Pred. No. 5.5e-289;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACATGCCATTCATGCTGACTCTGTCAA 60
DB 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACATGCCATTCATGCTGACTCTGTCAA 60
QY 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
DB 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATG 180
DB 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATG 180
QY 181 AGAAAGTTCCCAACAGAGAAACACAGAAATTTCCCATGTCTTCTCTTTCATGTAAAC 240
DB 181 AGAAAGTTCCCAACAGAGAAACACAGAAATTTCCCATGTCTTCTCTTTCATGTAAAC 240
QY 241 CAGAGGTATCATCTGTTGTTGTGTTACAGACCTTCAAAAATCACACCTTCTCTGCT 300
DB 241 CAGAGGTATCATCTGTTGTTGTGTTACAGACCTTCAAAAATCACACCTTCTCTGCT 300
QY 301 GTTGAGGTGCAATCAGCCATAAGAAATGAACAGAACCGGATCAACATGCTTTCTTCTA 360
DB 301 GTTGAGGTGCAATCAGCCATAAGAAATGAACAGAACCGGATCAACATGCTTTCTTCTA 360
QY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACATTCGACACCAACATGAGACCA 420
DB 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACATTCGACACCAACATGAGACCA 420
QY 421 TCTGTGCCCATCTGGATTTATTTATTTTGTGTGATATTTTGTGATATTTTGTGATTTGCAAT 480
DB 421 TCTGTGCCCATCTGGATTTATTTATTTTGTGTGATATTTTGTGATTTTGTGATTTGCAAT 480
QY 481 GCACCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 540
DB 481 GCACCTACTGATTTTATCAGGGATCTGGCAACCTAGAGAAAGAAACAAAGAACCATCTGAA 540
QY 541 GTGGATGACGCTGAAGATTAAGTGTGAAACCATGATCAAAATGGAATGCGATCCCTCT 600
DB 541 GTGGATGACGCTGAAGATTAAGTGTGAAACCATGATCAAAATGGAATGCGATCCCTCT 600
QY 601 GATCCCTGACATGAAGGGGGCATATTTAATGATGCTTTCATGACAGAGATGAGAGGC 660
DB 601 GATCCCTGACATGAAGGGGGCATATTTAATGATGCTTTCATGACAGAGATGAGAGGC 660
QY 661 TCACCCCTCTCTGAAGGGGCTGTTGTTCTCTTCTCAAGAAATTTAAACATTTGTTCTGT 720
DB 661 TCACCCCTCTCTGAAGGGGCTGTTGTTCTCTTCTCAAGAAATTTAAACATTTGTTCTGT 720
QY 721 GTGACTGTGACATCTCTGAAATACCAAGAGAGATCATATATTTTGTTCACATTTCTT 780
DB 721 GTGACTGTGACATCTCTGAAATACCAAGAGAGATCATATATTTTGTTCACATTTCTT 780
QY 781 CTTTGTGTAATTAATTTTGAATGCTTGAAGGAAAGCAATCAATTTTACCACCAAC 840
DB 781 CTTTGTGTAATTAATTTTGAATGCTTGAAGGAAAGCAATCAATTTTACCACCAAC 840
QY 841 ACCACTGAAATCATAGCTTATTCAGACTCAAAATATTTCTAAATATTTTCTGACAGTA 900
DB 841 ACCACTGAAATCATAGCTTATTCAGACTCAAAATATTTCTAAATATTTTCTGACAGTA 900

;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360

;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;
Best Local Similarity 100.0%; Pred. No. 5.5e-289;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACTGCGCAATTCATGCTGAACCTCTGTCAA 60
DB 1 GAAAGAAATGTTGGCTGCTCTTTTCTGGTGACTGCGCAATTCATGCTGAACCTCTGTCAA 60
QY 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
DB 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
QY 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGTAGCTTTCTCCATG 180
DB 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGTAGCTTTCTCCATG 180
QY 181 AGAAAAGTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTCTTTTCCAATGTAAAC 240
DB 181 AGAAAAGTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTCTTTTCCAATGTAAAC 240
QY 241 CAGAGGGTATCATTTCTGGTTTGTGGTTACAGACCCCTTCAAAAATCACACCCCTTCTGCT 300
DB 241 CAGAGGGTATCATTTCTGGTTTGTGGTTACAGACCCCTTCAAAAATCACACCCCTTCTGCT 300
QY 301 GTTGAGGTGCATTCAGCCATAGAAATGAACAGAACCGGATCAACATGCTTTCTTTCTA 360
DB 301 GTTGAGGTGCATTCAGCCATAGAAATGAACAGAACCGGATCAACATGCTTTCTTTCTA 360
QY 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCATGGACCCA 420
DB 361 AATGACCAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCATGGACCCA 420
QY 421 TCTGTGCCCATCTGGATTAATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
DB 421 TCTGTGCCCATCTGGATTAATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
QY 481 GCACCTACTGATTTTATCAGGGATCTGGCACTAGAGAAAGAAAGAAAGAACCATCTGAA 540
DB 481 GCACCTACTGATTTTATCAGGGATCTGGCACTAGAGAAAGAAAGAAAGAACCATCTGAA 540
QY 541 GTGGATGACGCTGAAGATAAGTGCAAAACATGATCACAATTTGAAAATGSCATCCCTCT 600
DB 541 GTGGATGACGCTGAAGATAAGTGCAAAACATGATCACAATTTGAAAATGSCATCCCTCT 600
QY 601 GATCCCTGGACATGAAGGGGGGCATATTAATGATGCTTTCAATGACAGAGGATGAGAGGC 660
DB 601 GATCCCTGGACATGAAGGGGGGCATATTAATGATGCTTTCAATGACAGAGGATGAGAGGC 660
QY 661 TCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCTCAAGAAATTAACAATTTGTTTCTGT 720
DB 661 TCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCTCAAGAAATTAACAATTTGTTTCTGT 720
QY 721 GTGACTGCTGAGCATCTCTGAATATCAAGAGCAGATCATATATTTGTTTCCACCTTCTT 780
DB 721 GTGACTGCTGAGCATCTCTGAATATCAAGAGCAGATCATATATTTGTTTCCACCTTCTT 780

QY 781 CTTTGTGTAATAATTTTGAATGCTGCTTGAAGTGAAGCAATCAATTAATACCCACCAAC 840
DB 781 CTTTGTGTAATAATTTTGAATGCTGCTTGAAGTGAAGCAATCAATTAATACCCACCAAC 840
QY 841 ACCACTGAATCATAGCTATTACAGCACTCAAAATATTTCTAAAATATTTTCTGCAGTGA 900
DB 841 ACCACTGAATCATAGCTATTACAGCACTCAAAATATTTCTAAAATATTTTCTGCAGTGA 900
QY 901 TAGTGTATAAATGTGTGATGCTGATGTTTGTAGTATTTGATTTAAGCAATTTTTCCTGCA 960
DB 901 TAGTGTATAAATGTGTGATGCTGATGTTTGTAGTATTTGATTTAAGCAATTTTTCCTGCA 960
QY 961 AGATCAGGCATATGATATATTTTTCACACTTCAAGACCTTAAGGAAAAATTAATTTTCCA 1020
DB 961 AGATCAGGCATATGATATATTTTTCACACTTCAAGACCTTAAGGAAAAATTAATTTTCCA 1020
QY 1021 GTGGAGNATACATATAATATGTTAGTAAATCATTTGAAATGATCTTTTTCACGATCA 1080
DB 1021 GTGGAGNATACATATAATATGTTAGTAAATCATTTGAAATGATCTTTTTCACGATCA 1080
QY 1081 CTTATATCACTCTGTATATGACTTAAGTAAACAAAGTGAGAGTAATTTTGTAAATGGA 1140
DB 1081 CTTATATCACTCTGTATATGACTTAAGTAAACAAAGTGAGAGTAATTTTGTAAATGGA 1140
QY 1141 TGGATAAATGGAATTTCTGATATGATATACAGGCTGGAATTTTATCTGTTATCACCAACA 1200
DB 1141 TGGATAAATGGAATTTCTGATATGATATACAGGCTGGAATTTTATCTGTTATCACCAACA 1200
QY 1201 GTTGATATATATTTTCTGATATGATATACAGGCTGGAATTTTATCTGTTATCACCAAT 1260
DB 1201 GTTGATATATATTTTCTGATATGATATACAGGCTGGAATTTTATCTGTTATCACCAAT 1260
QY 1261 TCTACAAATTTGTAAGTCCAAATCTGTGTAATTAAGTAAATTAATCAATCTCTTTT 1320
DB 1261 TCTACAAATTTGTAAGTCCAAATCTGTGTAATTAAGTAAATTAATCAATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
DB 1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 11

US-09-990-456-386
; Sequence 386, Application US/09990456
; Patent No. US20020137890A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730P1C22
; CURRENT APPLICATION NUMBER: US/09/990,456
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11

;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089440
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089512
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695

;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;
Best Local Similarity 100.0%; Pred. No. 5.5e-289;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGATGTTGGCTGCTCTTTTCTGGTGAGTGCATTCATGCTGAACCTCTGTCAA 60
Db |||||
Qy 1 GAAAGATGTTGGCTGCTCTTTTCTGGTGAGTGCATTCATGCTGAACCTCTGTCAA 60
Db |||||

Qy 61 CCAGGTGCGAGAAATGCTTTTAAAGTGAGACTTACTATCAGACAGCTCTGGGAGATAA 120
Db |||||

Qy 61 CCAGGTGCGAGAAATGCTTTTAAAGTGAGACTTACTATCAGACAGCTCTGGGAGATAA 120
Db |||||

Qy 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGTAGCTTTCTCCATG 180
Db |||||

Qy 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGTAGCTTTCTCCATG 180
Db |||||

Qy 181 AGAAAGTTCCCAACAGAGAGAGCAAGAAATTTCCCAATGTCTTCTTGCATGTAAAC 240
Db |||||

Qy 181 AGAAAGTTCCCAACAGAGAGAGCAAGAAATTTCCCAATGTCTTCTTGCATGTAAAC 240
Db |||||

Qy 241 CAGAGGTATCATTTCTGGTTGTGGTTACAGACCTTCAAAAATCAGACCTTCTCTGCT 300
Db |||||

Qy 241 CAGAGGTATCATTTCTGGTTGTGGTTACAGACCTTCAAAAATCAGACCTTCTCTGCT 300
Db |||||

Qy 301 GTTGAGGTGCAATCAGCCATAGAAATGAACAGAACCCGATCAACATGCCCTTCTTTCTA 360
Db |||||

Qy 301 GTTGAGGTGCAATCAGCCATAGAAATGAACAGAACCCGATCAACATGCCCTTCTTTCTA 360
Db |||||

Qy 361 AATGACCAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCACCCATGACCCA 420
Db |||||

Qy 361 AATGACCAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCACCCATGACCCA 420
Db |||||

Qy 421 TCTGTGCCCATCTCGATTTATTTATTTGGTGTGATTTTTCATCATCATAGTTGCAATT 480
Db |||||

Qy 421 TCTGTGCCCATCTCGATTTATTTATTTGGTGTGATTTTTCATCATCATAGTTGCAATT 480
Db |||||

Qy 481 GCATCTACTGATTTTATCAGGGATCTGGCAAGCTAGAGAGAGAGAGAGAGAGAGAGAG 540
Db |||||

Qy 481 GCATCTACTGATTTTATCAGGGATCTGGCAAGCTAGAGAGAGAGAGAGAGAGAGAG 540
Db |||||

Qy 541 GTGGATGACGCTGAAGATAGTGTGAAACATGATCAATTTGAAATGGCATGCCCTCT 600
Db |||||

Qy 541 GTGGATGACGCTGAAGATAGTGTGAAACATGATCAATTTGAAATGGCATGCCCTCT 600
Db |||||

Qy 601 GATCCCTGAGCATGAGGGGGGATTTATTTATGATGCTTTCATGACAGAGATGAGAGC 660
Db |||||

Qy 601 GATCCCTGAGCATGAGGGGGGATTTATTTATGATGCTTTCATGACAGAGATGAGAGC 660
Db |||||

1	PRIOR APPLICATION NUMBER: 60/088824
2	PRIOR FILING DATE: 1998-06-10
3	PRIOR APPLICATION NUMBER: 60/088826
4	PRIOR FILING DATE: 1998-06-10
5	PRIOR APPLICATION NUMBER: 60/088858
6	PRIOR FILING DATE: 1998-06-11
7	PRIOR APPLICATION NUMBER: 60/088861
8	PRIOR FILING DATE: 1998-06-11
9	PRIOR APPLICATION NUMBER: 60/088876
10	PRIOR FILING DATE: 1998-06-11
11	PRIOR APPLICATION NUMBER: 60/089105
12	PRIOR FILING DATE: 1998-06-12
13	PRIOR APPLICATION NUMBER: 60/089440
14	PRIOR FILING DATE: 1998-06-16
15	PRIOR APPLICATION NUMBER: 60/089512
16	PRIOR FILING DATE: 1998-06-16
17	PRIOR APPLICATION NUMBER: 60/089514
18	PRIOR FILING DATE: 1998-06-16
19	PRIOR APPLICATION NUMBER: 60/089532
20	PRIOR FILING DATE: 1998-06-17
21	PRIOR APPLICATION NUMBER: 60/089538
22	PRIOR FILING DATE: 1998-06-17
23	PRIOR APPLICATION NUMBER: 60/089598
24	PRIOR FILING DATE: 1998-06-17
25	PRIOR APPLICATION NUMBER: 60/089599
26	PRIOR FILING DATE: 1998-06-17
27	PRIOR APPLICATION NUMBER: 60/089600
28	PRIOR FILING DATE: 1998-06-17
29	PRIOR APPLICATION NUMBER: 60/089653
30	PRIOR FILING DATE: 1998-06-17
31	PRIOR APPLICATION NUMBER: 60/089801
32	PRIOR FILING DATE: 1998-06-18
33	PRIOR APPLICATION NUMBER: 60/089907
34	PRIOR FILING DATE: 1998-06-18
35	PRIOR APPLICATION NUMBER: 60/089908
36	PRIOR FILING DATE: 1998-06-18
37	PRIOR APPLICATION NUMBER: 60/089947
38	PRIOR FILING DATE: 1998-06-19
39	PRIOR APPLICATION NUMBER: 60/089948
40	PRIOR FILING DATE: 1998-06-19
41	PRIOR APPLICATION NUMBER: 60/089952
42	PRIOR FILING DATE: 1998-06-19
43	PRIOR APPLICATION NUMBER: 60/090246
44	PRIOR FILING DATE: 1998-06-22
45	PRIOR APPLICATION NUMBER: 60/090252
46	PRIOR FILING DATE: 1998-06-22
47	PRIOR APPLICATION NUMBER: 60/090254
48	PRIOR FILING DATE: 1998-06-22
49	PRIOR APPLICATION NUMBER: 60/090349
50	PRIOR FILING DATE: 1998-06-23
51	PRIOR APPLICATION NUMBER: 60/090355
52	PRIOR FILING DATE: 1998-06-23
53	PRIOR APPLICATION NUMBER: 60/090429
54	PRIOR FILING DATE: 1998-06-24
55	PRIOR APPLICATION NUMBER: 60/090431
56	PRIOR FILING DATE: 1998-06-24
57	PRIOR APPLICATION NUMBER: 60/090435
58	PRIOR FILING DATE: 1998-06-24
59	PRIOR APPLICATION NUMBER: 60/090444
60	PRIOR FILING DATE: 1998-06-24
61	PRIOR APPLICATION NUMBER: 60/090445
62	PRIOR FILING DATE: 1998-06-24
63	PRIOR APPLICATION NUMBER: 60/090472
64	PRIOR FILING DATE: 1998-06-24
65	PRIOR APPLICATION NUMBER: 60/090535
66	PRIOR FILING DATE: 1998-06-24
67	PRIOR APPLICATION NUMBER: 60/090540
68	PRIOR FILING DATE: 1998-06-24
69	PRIOR APPLICATION NUMBER: 60/090542
70	PRIOR FILING DATE: 1998-06-24
71	PRIOR APPLICATION NUMBER: 60/090557
72	PRIOR FILING DATE: 1998-06-24
73	PRIOR APPLICATION NUMBER: 60/090676

[illegible]

541 GTGGATGACCGCTGAAGATAGTGTGAAACATGATCACAATTTGAAAAATGGCATCCCTCT 600
DB |||||
541 GTGGATGACCGCTGAAGATAGTGTGAAACATGATCACAATTTGAAAAATGGCATCCCTCT 600
QY |||||
601 GATCCCTCGCATGAGAGGGGGGATATTAATGATGCTTCATGACAGAGGATGAGAGC 660
DB |||||
601 GATCCCTCGCATGAGAGGGGGGATATTAATGATGCTTCATGACAGAGGATGAGAGC 660
QY |||||
661 TCACCCCTCTCTGAAGGGGCTGTGCTCTCTCAAGAAATTAACATTTGTTCTCT 720
DB |||||
661 TCACCCCTCTCTGAAGGGGCTGTGCTCTCTCAAGAAATTAACATTTGTTCTCT 720
QY |||||
721 GTGACTGTGAGCATCTCTGAATACCAAGAGCAGATCATATATTTGTTTCCACATCTT 780
DB |||||
721 GTGACTGTGAGCATCTCTGAATACCAAGAGCAGATCATATATTTGTTTCCACATCTT 780
QY |||||
781 CTTTGTGTAATTAATTTGAAATGCTGTGAAGTGAAGAAAGCAATCATATACCCACAC 840
DB |||||
781 CTTTGTGTAATTAATTTGAAATGCTGTGAAGTGAAGAAAGCAATCATATACCCACAC 840
QY |||||
841 ACCACTGAAATCATAGCTATTACAGACTCAAAATATCTAAATATTTTCTGCAGTA 900
DB |||||
841 ACCACTGAAATCATAGCTATTACAGACTCAAAATATCTAAATATTTTCTGCAGTA 900
QY |||||
901 TAGTGTATAAATGTGCTCATGTGTATTTGTATTTATTAATTAAGCAATTTTAGAATA 960
DB |||||
901 TAGTGTATAAATGTGCTCATGTGTATTTGTATTTATTAATTAAGCAATTTTAGAATA 960
QY |||||
961 AGATCGGATATGATATATATTTTACACTTCAAGACCTTAAGGAAATTAATTTTCCA 1020
DB |||||
961 AGATCGGATATGATATATATTTTACACTTCAAGACCTTAAGGAAATTAATTTTCCA 1020
QY |||||
1021 GTGGAGATACATAATATGTTAGAAATCATTTGAAATGATCTTTTGAAGATCA 1080
DB |||||
1021 GTGGAGATACATAATATGTTAGAAATCATTTGAAATGATCTTTTGAAGATCA 1080
QY |||||
1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTGAAATGGA 1140
DB |||||
1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAAGTAAATTTGAAATGGA 1140
QY |||||
1141 TGGATAAAATGGAATTAATCATATACAGGTGGAATTTTTCCTGTTATCAGCAACA 1200
DB |||||
1141 TGGATAAAATGGAATTAATCATATACAGGTGGAATTTTTCCTGTTATCAGCAACA 1200
QY |||||
1201 GTTGATATATATTTTCTCAATATCAGCCCTTAATAGGCAATTTTATTTGACCAT 1260
DB |||||
1201 GTTGATATATATTTTCTCAATATCAGCCCTTAATAGGCAATTTTATTTGACCAT 1260
QY |||||
1261 TCTACAAATTTGAAAAAGTCCAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT 1320
DB |||||
1261 TCTACAAATTTGAAAAAGTCCAATCTGTGCTAACTTAATAAGTAATAATCATCTCTTTT 1320
QY |||||
1321 AAAAAAAAAAAAAAAAAAAAAA 1346
DB |||||
1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 13

US-09-992-598-386
; Sequence 386, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC20
CURRENT APPLICATION NUMBER: US/09/992,598
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088555
PRIOR FILING DATE: 1998-06-09

; PRIOR APPLICATION NUMBER: 60/088734
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088738
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088742
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088810
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088824
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088826
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088858
 ; PRIOR FILING DATE: 1998-06-11
 ; PRIOR APPLICATION NUMBER: 60/088861
 ; PRIOR FILING DATE: 1998-06-11
 ; PRIOR APPLICATION NUMBER: 60/088876
 ; PRIOR FILING DATE: 1998-06-11
 ; PRIOR APPLICATION NUMBER: 60/089105
 ; PRIOR FILING DATE: 1998-06-12
 ; PRIOR APPLICATION NUMBER: 60/089440
 ; PRIOR FILING DATE: 1998-06-16
 ; PRIOR APPLICATION NUMBER: 60/089512
 ; PRIOR FILING DATE: 1998-06-16
 ; PRIOR APPLICATION NUMBER: 60/089514
 ; PRIOR FILING DATE: 1998-06-16
 ; PRIOR APPLICATION NUMBER: 60/089532
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089538
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089598
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089599
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089600
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089653
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089801
 ; PRIOR FILING DATE: 1998-06-18
 ; PRIOR APPLICATION NUMBER: 60/089907
 ; PRIOR FILING DATE: 1998-06-18
 ; PRIOR APPLICATION NUMBER: 60/089908
 ; PRIOR FILING DATE: 1998-06-18
 ; PRIOR APPLICATION NUMBER: 60/089947
 ; PRIOR FILING DATE: 1998-06-19
 ; PRIOR APPLICATION NUMBER: 60/089948
 ; PRIOR FILING DATE: 1998-06-19
 ; PRIOR APPLICATION NUMBER: 60/089952
 ; PRIOR FILING DATE: 1998-06-19
 ; PRIOR APPLICATION NUMBER: 60/090246
 ; PRIOR FILING DATE: 1998-06-22
 ; PRIOR APPLICATION NUMBER: 60/090252
 ; PRIOR FILING DATE: 1998-06-22
 ; PRIOR APPLICATION NUMBER: 60/090254
 ; PRIOR FILING DATE: 1998-06-22
 ; PRIOR APPLICATION NUMBER: 60/090349
 ; PRIOR FILING DATE: 1998-06-23
 ; PRIOR APPLICATION NUMBER: 60/090355
 ; PRIOR FILING DATE: 1998-06-23
 ; PRIOR APPLICATION NUMBER: 60/090429
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090431
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090435
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090444
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090445
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090472
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090535

; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090540
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090542
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090557
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090576
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090678
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090690
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090694
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090695
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090696
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090862
 ; PRIOR FILING DATE: 1998-06-26
 ; PRIOR APPLICATION NUMBER: 60/090863
 ; PRIOR FILING DATE: 1998-06-26
 ; PRIOR APPLICATION NUMBER: 60/091360
 ; PRIOR FILING DATE: 1998-07-01
 ; PRIOR APPLICATION NUMBER: 60/091478
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091544
 ; PRIOR FILING DATE: 1998-07-01
 ; PRIOR APPLICATION NUMBER: 60/091519
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091626
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091633
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091978
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/091982
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/092182
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;
 Best Local Similarity 100.0%; Pred. No. 5.5e-289;
 Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GAAGAAGTTGTGGCTGCTCTTTTCTGGTGACTGCAATTCATGCTGAACTCTCTCA	60
Db	1	GAAGAAGTTGTGGCTGCTCTTTTCTGGTGACTGCAATTCATGCTGAACTCTCTCA	60
Qy	61	CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA	120
Db	61	CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAA	120
Qy	121	GCATATGCTTGGGATACCAATGAAGAATACCTCTTCAAAGCGATGCTTCTCCATG	180
Db	121	GCATATGCTTGGGATACCAATGAAGAATACCTCTTCAAAGCGATGCTTCTCCATG	180
Qy	181	AGAAAGTTCCCAACAGAGAGACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC	240
Db	181	AGAAAGTTCCCAACAGAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC	240
Qy	241	CAGAGGGTATCATTTCTGGTTGTGTTACAGACCCCTTCAAAAATCACAACCTTCTGCT	300
Db	241	CAGAGGGTATCATTTCTGGTTGTGTTACAGACCCCTTCAAAAATCACAACCTTCTGCT	300
Qy	301	GTGAGGTGCAATCAGCCATAGAAATGAACAGAACCGGATCAACAATGCCCTTTCTTA	360
Db	301	GTGAGGTGCAATCAGCCATAGAAATGAACAGAACCGGATCAACAATGCCCTTTCTTA	360
Qy	361	AATGACCAAACTCTGGAAATTTTAAATCCCTTCCACACTTGGACCCACCATGGACCA	420
Db	361	AATGACCAAACTCTGGAAATTTTAAATCCCTTCCACACTTGGACCCACCATGGACCA	420

QY 421 TCTGTGCCCATCTGGATTATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
DB TCTGTGCCCATCTGGATTATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
QY 481 GCACACTACTGATTTTATCATCGGATCTGGCAACCTGTAGGAAGAACAACAAGAACCACTGAA 540
DB GCACACTACTGATTTTATCATCGGATCTGGCAACCTGTAGGAAGAAGAACAACAAGAACCACTGAA 540
QY 541 GTGGATGACGCTGAAGATAGTGTGAATAATGATCATCAATTTGAATAATGCGATCCCTCT 600
DB GTGGATGACGCTGAAGATAGTGTGAATAATGATCATCAATTTGAATAATGCGATCCCTCT 600
QY 601 GATCCCTTGGACATGAAGGGGGGACATATTAATGATGCGCTTCATGACAGAGGATGAGAGGC 660
DB GATCCCTTGGACATGAAGGGGGGACATATTAATGATGCGCTTCATGACAGAGGATGAGAGGC 660
QY 661 TCACCCCTCTCTGAAGGGGCTGTGTCTCTCTCTCAAGAAATTAACCAATTTGTTTCTGT 720
DB TCACCCCTCTCTGAAGGGGCTGTGTCTCTCTCTCAAGAAATTAACCAATTTGTTTCTGT 720
QY 721 GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTGTTTCCCAATTCCT 780
DB GTGACTGCTGAGCATCTGAAATACCAAGAGCAGATCATATATTTTGTGTTTCCCAATTCCT 780
QY 781 CTTTGTGTAATAATTTTGAATGTGCTTGAAGTGAAGCAATCAATTTATACCCCAAC 840
DB CTTTGTGTAATAATTTTGAATGTGCTTGAAGTGAAGCAATCAATTTATACCCCAAC 840
QY 841 ACCACTGAATCATAGCTATTACAGACTCAAAATCTTAAATATTTTCTGACAGTA 900
DB ACCACTGAATCATAGCTATTACAGACTCAAAATCTTAAATATTTTCTGACAGTA 900
QY 901 TAGTGTATAAATGTGCTGATGTGTAATTTGTAGTTATTTGATTTAAGCAATTTTGAATA 960
DB TAGTGTATAAATGTGCTGATGTGTAATTTGTAGTTATTTGATTTAAGCAATTTTGAATA 960
QY 961 AGATCAGGCATATGATATATTTTTCACCTTCAAGACCTTAAGCAAAATAAATTTTCCA 1020
DB AGATCAGGCATATGATATATTTTTCACCTTCAAGACCTTAAGCAAAATAAATTTTCCA 1020
QY 1021 GTGGAGAATACATATATATGTGTAGAAATCAATGAAATGCTCTTTTGTGACATCA 1080
DB GTGGAGAATACATATATATGTGTAGAAATCAATGAAATGCTCTTTTGTGACATCA 1080
QY 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAAATTAATTTGTAATGGA 1140
DB CTTATATCACTCTGTATATGACTAAGTAAACAAAGTGAGAAATTAATTTGTAATGGA 1140
QY 1141 TGGATAAATAAGGAATTACTCATATACAGGGTGGAAATTTTATCTGTTATCACCAACA 1200
DB TGGATAAATAAGGAATTACTCATATACAGGGTGGAAATTTTATCTGTTATCACCAACA 1200
QY 1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGACAATTTATTTGTTGACCAT 1260
DB GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGACAATTTATTTGTTGACCAT 1260
QY 1261 TCTACAAATTTGTAAGTCCCAATCTGTGCTAACTTAATAAGTAATTAATCTCTTTT 1320
DB TCTACAAATTTGTAAGTCCCAATCTGTGCTAACTTAATAAGTAATTAATCTCTTTT 1320
QY 1321 AAAAAAAAAAAAAAAAAAAAAA 1346
DB AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 14

US-09-989-293A-386
; Sequence 386, Application US/09989293A
; Patent No. US20020177164A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC66
CURRENT APPLICATION NUMBER: US/09/989,293A
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05

;; PRIOR APPLICATION NUMBER: 60/088202
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088212
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088217
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088655
;; PRIOR FILING DATE: 1998-06-09
;; PRIOR APPLICATION NUMBER: 60/088734
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088738
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088742
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088810
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088824
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088826
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088858
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088861
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089440
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089512
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435

;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;
Best Local Similarity 100.0%; Pred. No. 5,5e-299;
Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGATGTTGTGGCTGCTCTTTTCTGGTGAAGTCAATTCATGCACTCTGCAAC 60
Db 1 GAAAGATGTTGTGGCTGCTCTTTTCTGGTGAAGTCAATTCATGCACTCTGCAAC 60

Qy 61 CCAGGTGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAA 120
Db 61 CCAGGTGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAA 120

Qy 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGGATGCTAGCTTTCTCCATG 180
Db 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAGGATGCTAGCTTTCTCCATG 180

Qy 181 AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGAACC 240
Db 181 AGAAAGTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGAACC 240

Qy 241 CAGAGGGTATCATTTCTGTTTGTGTACAGACCCCTTCAAAAATCAGACCCCTTCTGCT 300
Db 241 CAGAGGGTATCATTTCTGTTTGTGTACAGACCCCTTCAAAAATCAGACCCCTTCTGCT 300

301 GTTGGAGTGCATCAGCCATAGAATGAACAGAACCGGATCAACAATGCCCTCTCTTTCTA 360
301 GTTGGAGTGCATCAGCCATAGAATGAACAGAACCGGATCAACAATGCCCTCTCTTTCTA 360
361 AATGACCAAACTCTGGAATTTTAAATATCCCTTCCACACTTGCACACCCCATGACCCA 420
361 AATGACCAAACTCTGGAATTTTAAATATCCCTTCCACACTTGCACACCCCATGACCCA 420
421 TCTGTGCCATCTCGAATATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
421 TCTGTGCCATCTCGAATATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATT 480
481 GCACCTACTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACCACTGAA 540
481 GCACCTACTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACCACTGAA 540
541 GTGGATGACGCTGAAGATGAAGTGCACAAACATGATCAATTTGAAATGGCATCCCTCT 600
541 GTGGATGACGCTGAAGATGAAGTGCACAAACATGATCAATTTGAAATGGCATCCCTCT 600
601 GATCCCTCTGGAAGGGGCTGTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTGT 720
601 GATCCCTCTGGAAGGGGCTGTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTGT 720
721 GTGACTGTGAGCATCTGMAATACCAAGAGCAGATCATATATTTGTTTACCACTTCT 780
721 GTGACTGTGAGCATCTGMAATACCAAGAGCAGATCATATATTTGTTTACCACTTCT 780
781 CTTTGTGTAATTAATTTGAATGTGCTTGAAGTGAAGCAATCAATATATACCCCAAC 840
781 CTTTGTGTAATTAATTTGAATGTGCTTGAAGTGAAGCAATCAATATATACCCCAAC 840
841 ACCACTGAAATCATAGCTATTTCAGATCAAAATATTTCTAAATATTTTCTGACAGTA 900
841 ACCACTGAAATCATAGCTATTTCAGATCAAAATATTTCTAAATATTTTCTGACAGTA 900
901 TAGTGTATAAATGTGCTATGCTGATTTGATTTGATTTAGATTAAGCATTTTAGAATA 960
901 TAGTGTATAAATGTGCTATGCTGATTTGATTTGATTTAGATTAAGCATTTTAGAATA 960
961 AGATCAGGCATATGATATATTTTACACTTCAAGACCTAAGGAAAAATAAATTTTCCA 1020
961 AGATCAGGCATATGATATATTTTACACTTCAAGACCTAAGGAAAAATAAATTTTCCA 1020
1021 GTGGAGATACATATAATATGCTGTAGAAATCAATGAAATGGATCTTTTGGACATCA 1080
1021 GTGGAGATACATATAATATGCTGTAGAAATCAATGAAATGGATCTTTTGGACATCA 1080
1081 CTTATATCACTCTGTATATGACTTAAGTAAACAAAGTGAAGTAAATTTGTAATGGA 1140
1081 CTTATATCACTCTGTATATGACTTAAGTAAACAAAGTGAAGTAAATTTGTAATGGA 1140
1141 TGGATAAAATGGAATTAATCTATATACAGGGTGAATTTTATCTCTGTTATCACACCA 1200
1141 TGGATAAAATGGAATTAATCTATATACAGGGTGAATTTTATCTCTGTTATCACACCA 1200
1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGCAATTTCTATTTTGTGACCA 1260
1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGCAATTTCTATTTTGTGACCA 1260
1261 TCTACAAATTTGTAAGTCCCAATCTGTGCTAACTTAATAGTAAATCAATCACTCTTT 1320
1261 TCTACAAATTTGTAAGTCCCAATCTGTGCTAACTTAATAGTAAATCAATCACTCTTT 1320
1321 AAAAAAAAAAAAAAAAAAAAAA 1346
1321 AAAAAAAAAAAAAAAAAAAAAA 1346

RESULT 15
US-09-989-735-386
; Sequence 386, Application US/09989735
; Publication No. US2002019299A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC61
; CURRENT APPLICATION NUMBER: US/09/989,735
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04

; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349

; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1346; DB 9; Length 1346;

Best Local Similarity 100.0%; Pred. No. 5.5e-289;

Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAAGAAATGTTGTGGCTCTCTTTTCTGGTGA CTGCCAATCATGCGAACTCTGTCAA 60
Db 1 GAAAGAAATGTTGTGGCTCTCTTTTCTGGTGA CTGCCAATCATGCGAACTCTGTCAA 60
Qy 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACGCTCTGGGAGATAA 120
Db 61 CCAGGTGCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACGCTCTGGGAGATAA 120
Qy 121 GCATATGCTCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGCTTTCTCCATG 180
Db 121 GCATATGCTCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGCTTTCTCCATG 180

QY 181 AGAAAAGTTCACACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTTGCATGTAACC 240
 Db 181 AGAAAAGTTCACACAGAGAGCAACAGAAATTTCCCATGTCCTACTTTTGCATGTAACC 240
 QY 241 CAGAGGGTATCATTTCTGGTTTGTGGTTACAGACCCCTTCAAAAATTCACACCCCTCTCTGCT 300
 Db 241 CAGAGGGTATCATTTCTGGTTTGTGGTTACAGACCCCTTCAAAAATTCACACCCCTCTCTGCT 300
 QY 301 GTTGAGGTGCATCAGCCCATAGAAATGAACAAAGAACCGGATCAACAATGCCCTTCTTTCTA 360
 Db 301 GTTGAGGTGCATCAGCCCATAGAAATGAACAAAGAACCGGATCAACAATGCCCTTCTTTCTA 360
 QY 361 AATGACCAAACTCTGGAAATTTTAAATATCCCTTCCACACTTGCACCCACCGATGACCCA 420
 Db 361 AATGACCAAACTCTGGAAATTTTAAATATCCCTTCCACACTTGCACCCACCGATGACCCA 420
 QY 421 TCTGTGCCCATCTGATATATATTTTGGTGTGATATTTTGCATCATATAGTTGCAATT 480
 Db 421 TCTGTGCCCATCTGATATATATTTTGGTGTGATATTTTGCATCATATAGTTGCAATT 480
 QY 481 GCACACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA 540
 Db 481 GCACACTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAA 540
 QY 541 GTGGATGAGCTGAGAGATAGTGTGAAACATGATCAAAATTGAAATGGCATCCCTCT 600
 Db 541 GTGGATGAGCTGAGAGATAGTGTGAAACATGATCAAAATTGAAATGGCATCCCTCT 600
 QY 601 GATCCCTCGACATGAAGGGGGCATATTAATGATGCCCTTCATGACAGAGGATGAGGCG 660
 Db 601 GATCCCTCGACATGAAGGGGGCATATTAATGATGCCCTTCATGACAGAGGATGAGGCG 660
 QY 661 TCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTGT 720
 Db 661 TCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCTCAAGAAATTAACATTTGTTCTGT 720
 QY 721 GTGACTGTGAGCATCTGAAATACCAAGAGCGATCATATATTTTGTGTTGACCATCTT 780
 Db 721 GTGACTGTGAGCATCTGAAATACCAAGAGCGATCATATATTTTGTGTTGACCATCTT 780
 QY 781 CTTTGTGTAATAATTTTGAATGTCTTGAAGTGAAGGAAAGCAATTAATACCCCAAC 840
 Db 781 CTTTGTGTAATAATTTTGAATGTCTTGAAGTGAAGGAAAGCAATTAATACCCCAAC 840
 QY 841 ACCACTGAAATCATAGCTATTCACGACTCAAAATATTTCTGACAGTA 900
 Db 841 ACCACTGAAATCATAGCTATTCACGACTCAAAATATTTCTGACAGTA 900
 QY 901 TAGTGTAATAATGTGGTCAATGTTGTTAGTTATGATTTAAGCATTTTGTAGAAATA 960
 Db 901 TAGTGTAATAATGTGGTCAATGTTGTTAGTTATGATTTAAGCATTTTGTAGAAATA 960
 QY 961 AGATCAGGCATATGATATATTTTCACTTCAAGACCTTAAGGAAATTAATTTTCCA 1020
 Db 961 AGATCAGGCATATGATATATTTTCACTTCAAGACCTTAAGGAAATTAATTTTCCA 1020
 QY 1021 GTGGAGATACATATATATGTTGTAGAAATCAATGAAATGGATCCTTTTGAAGATCA 1080
 Db 1021 GTGGAGATACATATATATGTTGTAGAAATCAATGAAATGGATCCTTTTGAAGATCA 1080
 QY 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGTAATTTGTAAATGGA 1140
 Db 1081 CTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAAGTAATTTGTAAATGGA 1140
 QY 1141 TGGATAAAATGGAATTTACTCATATACAGGGTGAATTTTATCTGTATCACCAACA 1200
 Db 1141 TGGATAAAATGGAATTTACTCATATACAGGGTGAATTTTATCTGTATCACCAACA 1200
 QY 1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGCAATTTCTATTTGTTGACCAT 1260
 Db 1201 GTTGATATATATTTTCTGAATATCAGCCCTTAATAGGCAATTTCTATTTGTTGACCAT 1260

QY 1261 TCTCAATTTGPAAGTCCAATCTGTCTAACTTTAAATAAGTAAATCAATCTCTTTT 1320
 Db 1261 TCTCAATTTGPAAGTCCAATCTGTCTAACTTTAAATAAGTAAATCAATCTCTTTT 1320
 QY 1321 AAAAAAATAAAAAAATAAAAAA 1346
 Db 1321 AAAAAAATAAAAAAATAAAAAA 1346

Search completed: April 4, 2004, 01:06:44
 Job time : 596 secs

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1	(bases 1 to 870)			
	NIH-MGC http://mgc.nci.nih.gov/			
	National Institutes of Health,			
	Unpublished (1999)			
	Contact: Robert Strausberg, ph.d.			
	Email: cgapbs@mail.nih.gov			
	Tissue Procurement: Life Techno			
	cDNA Library Preparation: Life			
	cDNA Library Arrayed by: The I			
	DNA Sequencing by: Incyte Genom			
	Clone distribution: MGC clone			
	found through the I.M.A.G.E. Co			
	http://image.llnl.gov			
	Plate: LLAM11458	row: c	column: 1	
	High quality sequence stop: 844			

```
FEATURES
source
Location/Qualifiers
1..870
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5183554"
/lab_host="DH10B"
/clone_lib="NIH_MGC_116"
/notes="Organ: pooled colon, kidney, stomach; Vector:
pCMV-SPORT6; Site 1: NotI; Site 2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC Library."
```

ORIGIN

Query Match 58.8%; Score 791.2; DB 12; Length 870;
Best Local Similarity 97.7%; Pred. No. 4.7e-105;
Matches 813; Conservative 0; Mismatches 18; Indels 1; Gaps 1;

QY 11 TGTGGCTCTCTTTTCTGGTGAAGTCTAGTATCAGAACAGCTCTGGGAGATAAAGCATATGCGCT 70
DB 12 TGTGGCTCTCTTTTCTGGTGAAGTCTAGTATCAGAACAGCTCTGGGAGATAAAGCATATGCGCT 71

QY 71 AAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATATGCGCT 130
DB 72 AAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATATGCGCT 131

QY 131 GGGATACCAATGAAGATACCTCTTCAAAAGCGATGGTAGCTTTCTCCATGAGAAAAGTTC 190
DB 132 GGGATACCAATGAAGATACCTCTTCAAAAGCGATGGTAGCTTTCTCCATGAGAAAAGTTC 191

QY 191 CCAACAGAGAAGCAACGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAGGGTAT 250
DB 192 CCAACAGAGAAGCAACGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAGGGTAT 251

QY 251 CATTTCTGGTTGTGGTTTACAGACCTTCAAAAATACACCTTCCCTGCTGTTGAGGTGC 310
DB 252 CATTTCTGGTTGTGGTTTACAGACCTTCAAAAATACACCTTCCCTGCTGTTGAGGTGC 311

QY 311 AATCAGCATAPAGAATGAACAGAACCGGATCAACATGCGCTTTCTTTAAATGAACAAA 370
DB 312 AATCAGCATAPAGAATGAACAGAACCGGATCAACATGCGCTTTCTTTAAATGAACAAA 371

QY 371 CTCTGGAAATTTTAAAAATCCCTTCCACACTTGCACACCCCATGGACCCCATCTGTGCCCA 430
DB 372 CTCTGGAAATTTTAAAAATCCCTTCCACACTTGCACACCCCATGGACCCCATCTGTGCCCA 431

QY 431 TCTGGATTATATATTTGGTGTGATATTTTGGCATCATCATAGTTGCAATGTGCACTACTGA 490
DB 432 TCTGGATTATATATTTGGTGTGATATTTTGGCATCATCATAGTTGCAATGTGCACTACTGA 491

QY 491 TTTTATCAGGGATCTGGCAACGTAGAGAAGAACAAAGAACCATCTGAAAGTGGATGACG 550
DB 492 TTTTATCAGGGATCTGGCAACGTAGAGAAGAACAAAGAACCATCTGAAAGTGGATGACG 551

QY 551 CTGAAGATAAGTGTGAAGACATGATCAATTTGAATGGCATCCCTCTGATCCCTGG 610
DB 552 CTGAAGATAAGTGTGAAGACATGATCAATTTGAATGGCATCCCTCTGATCCCTGG 611

QY 611 ACATGAAGG- GGCGCATATTAATGATGCTTTCATGACAGAGGATGAGAGGCTCACCCCTC 669
DB 612 ACATGAAGGAGGGCATATTAATGATGCTTTCATGACAGAGGATGAGAGGCTCACCCCTC 671

QY 670 TCTGAAGGGCTGTGTTCTGCTCTCCCAAGAAATTAACATTTGTTCTGTGTGACTGCT 729
DB 672 TCTGAAGGGCTGTGTTCTGCTCTCCCAAGAAATTAACATTTGTTCTGTGTGACTGCT 731

QY 730 GAGCATCTCAATACCAAGAGCAGATCATATATTTGTTTCCACATCTCTCTTTGTA 789
DB 732 GAGCATCTCAATACCAAGAGCAGATCATATATTTGTTTCCACATCTCTCTTTGTA 791

QY 790 TAAATTTGAATGCTTGAAGTGAAAAGCAATCAATATATACCCACCA 841
DB 792 TAAATTTGAATGCTTGAAGTGAAAAGCAATCAATATATACCCACCA 843

BI762437 978 bp mRNA linear EST 25-SEP-2001
603048828F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5189023 5',
mRNA sequence.
BI762437
BI762437.1 GI:15754015
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Rutheria; Primates; Catarrhini; Hominidae; Homo.
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM11472 row: 9 column: 08
High quality sequence stop: 826.

FEATURES
source
1..978
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5189023"
/lab_host="DH10B"
/clone_lib="NIH_MGC_116"
/notes="Organ: pooled colon, kidney, stomach; Vector:
pCMV-SPORT6; Site 1: NotI; Site 2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC Library."

ORIGIN

Query Match 55.8%; Score 751.2; DB 12; Length 978;
Best Local Similarity 92.9%; Pred. No. 2.5e-99;
Matches 863; Conservative 0; Mismatches 53; Indels 13; Gaps 7;

QY 35 CTGCCATTCATGCTGAACCTCTGCAACCCAGTGCAGAAATGCTTTTAAAGTGAGACTTA 94
DB 1 CTGCCATTCATGCTGAACCTCTGCAACCCAGTGCAGAAATGCTTTTAAAGTGAGACTTA 60

QY 95 GTATCAGAACAGCTCTGGGAGATAAAGCATATGCTGGGATACCAATGAAGAATACCTCT 154
DB 61 GTATCAGAACAGCTCTGGGAGATAAAGCATATGCTGGGATACCAATGAAGAATACCTCT 120

QY 155 TCAAGGGATGGTAGCTTTCTCCATGAGAAAAGTTCCCAACAGAGAGCAACAGAAATTT 214
DB 121 TCAAGGGATGGTAGCTTTCTCCATGAGAAAAGTTCCCAACAGAGAGCAACAGAAATTT 180

```
QY 215 CCCA-TGTCCTACTTGGCAATGTAAACCCAGAGGGTATCATTTCTGTTTGGTTACAGAC 273
Db 181 CCCAGTGTCTACTTWTGCAATGTAAACCCAGAGGGTATCATTTCTGTTTGGTTACAGAC 240
QY 274 CCTTCAAAAAATCACACCTTCTCTGCTGTGAGGTGCAATCAGCCATGAAGATGAACAAG 333
Db 241 CCTTCAAAAAATCACACCTTCTCTGCTGTGAGGTGCAATCAGCCATGAAGATGAACAAG 300
QY 334 AACCGGATCAACAATGCCTTCTTTCTAAATGACCAAACTCTGGAATTTTTAAAAATCCCT 393
Db 301 AACCGGATCAACAATGCCTTCTTTCTAAATGACCAAACTCTGGAATTTTTAAAAATCCCT 360
QY 394 TCCACACTTGCACCAACCCATGAGCAACCTCTGTGCCCATCTGATTAATTTATTTGGTGTG 453
Db 361 TCCACACTTGCACCAACCCATGAGCAACCTCTGTGCCCATCTGATTAATTTATTTGGTGTG 420
QY 454 ATATTTTGCATCATCATAGTTGCAATGTGCACTTACTTACTGATTTTATCAGGATCTGGCAACGT 513
Db 421 ATATTTTGCATCATCATAGTTGCAATGTGCACTTACTTACTGATTTTATCAGGATCTGGCAACGT 480
QY 514 AGAAGAAAGAAACAAAGAACCATCTGAAGTGGATGACGCTGAAGATAAGTGTGAACCAATG 573
Db 481 AGAAGAAAGAAACAAAGAACCATCTGAAGTGGATGACGCTGAAGATAAGTGTGAACCAATG 540
QY 574 ATCACAATTTGAAATGGCATCCCTCTGATCCCTTGGACATGAAGGG-GGGCATATTAAAT 632
Db 541 ATCACAATTTGAAATGGCATCCCTCTGATCCCTTGGACATGAAGGGGAGGCATATTAAAT 600
QY 633 GATGCTTTCATGACAGAGATGAGAGGCTCACCCCTCTCTGAAGGCTGTGTTCTGCTT 692
Db 601 GATGCTTTCATGACAGAGATGAGAGGCTCACCCCTCTCTGAAGGCTGTGTTCTGCTT 660
QY 693 CCTCAAGAAATTAACAATTTGTTTCTGTGTGACTGCTGAGCATCTGAAATACCAAGAGC 752
Db 661 CCTCAAGAAATTAACA-ITGTTTCTGTGTGACTGCTGAGCATCTGAAATACCAAGAGC 719
QY 753 AGATCATATATTTTGTTCACCAATTTCTTTTGTGTAATAAATTTTGAATGTGCTTGAAG 812
Db 720 AGATCATATATTTTGTTCACCAATTTCTTTTGTGTAATAAATTTTGAATGTGCTTGAAG 779
QY 813 TGAAAGCAATCAATTTATACCAACCAACCACTGAATCATGAATCTATTCAGCATCTAA 872
Db 780 TGAAAGC-ATCAATTTATACCAACAA--CACTGAATCATGAATCTATTCAGGAATCAA 835
QY 873 AATATTTCAAAATATTTTCTGACAGTATAGTATATAATGTGTCATGTGTTATTTGTA 932
Db 836 A--TATCTAAGTATTTTCTGAAGATAGGTATAA----TGGTGGCAGTGGATGGA 889
QY 933 GTTATGTATTAAGCATTTTGTAGAAATAA 961
Db 890 GTTATGTATTAAGATTTTGTAGATTAATA 918
```

```
RESULT 3
LOCUS BG217185 779 bp mRNA linear EST 21-APR-2001
DEFINITION R5736886 Athersys RAGE Library Homo sapiens cDNA, mRNA sequence.
ACCESSION BG217185
VERSION BG217185.1 GI:13743206
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 779)
AUTHORS Harrington,J.J., Sherf,B., Rundlett,S., Jackson,P.D., Perry,R.,
Cain,S., Leventhal,C., Thornton,M., Ramachandran,R.,
Whittington,J., Lerner,L., Costanzo,D., McElligott,K., Booser,S.,
Mays,R., Smith,E., Veloso,N., Klika,A., Hess,J., Cothren,K., Lo,K.,
Offenbacher,J., Danzig,J. and Ducar,M.
TITLE Creation of genome-wide protein expression libraries using random
activation of gene expression
JOURNAL Nat. Biotechnol. 19 (5), 440-445 (2001)
```

MEDLINE
PUBMED
COMMENT

21227151
11329013
Contact: Scott J. Cain
Athersys, Inc.
3201 Carnegie Ave, Cleveland, OH 44115, USA
Tel: 216 431 9900
Fax: 216 361 9596
Email: scaine@atersys.com
High quality sequence stop: 547.

FEATURES
Source

1..779
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cell_line="HT1080"
/clone_lib="Athersys RAGE Library"
/note="See 'Creation of Genome-wide Protein Expression
Libraries using Random Activation of Gene Expression', the
Nature Biotechnology, in press. Note that even though the
cell type indicated is HT1080, since a random activation
method was used, these sequence tags are not necessarily
expressed in HT1080 under normal circumstances."

ORIGIN

Query Match 55.5%; Score 746.8; DB 12; Length 779;
Best Local Similarity 99.0%; Pred. No. 1.3e-98;
Matches 762; Conservative 0; Mismatches 7; Indels 1; Gaps 1;
QY 217 CATGCTTACTTGTCAATGTAAACCCAGAGGGTATCATTTCTGTTTGGTTACAGACCT 276
Db 10 CTTGCTTACTTGTCAATGTAAACCCAGAGGGTATCATTTCTGTTTGGTTACAGACCT 69
QY 277 TCAGAAATTCACACCTTCTCTGCTGTGAGGTGCAATCAGCCATGAAGATGAACAAGAC 336
Db 70 TCAGAAATTCACACCTTCTCTGCTGTGAGGTGCAATCAGCCATGAAGATGAACAAGAC 129
QY 337 CGGATCAACAATGCCTTCTTTCTAAATGACCAAACTCTGGAATTTTTAAAAATCCCTTC 396
Db 130 CGGATCAACAATGCCTTCTTTCTAAATGACCAAACTCTGGAATTTTTAAAAATCCCTTC 189
QY 397 ACCTTGCACCAACCCATGAGCCATCTGTCGCCCATCTGATTAATTTATTTGGTGTGATA 456
Db 190 ACCTTGCACCAACCCATGAGCCATCTGTCGCCCATCTGATTAATTTATTTGGTGTGATA 249
QY 457 TTTTGCATCATCATAGTTGCAATTCGACTACTGATTTTATCAGGATCTGGCAACCTAGA 516
Db 250 TTTTGCATCATCATAGTTGCAATTCGACTACTGATTTTATCAGGATCTGGCAACCTAGA 309
QY 517 AGAAGAAACAAAGAACCATCTGAAGTGGATGACGCTGAAGATAAGTGTGAACCAATGATC 576
Db 310 AGAAGAAACAAAGAACCATCTGAAGTGGATGACGCTGAAGATAAGTGTGAACCAATGATC 369
QY 577 ACAATTTGAATTTGGCATCCCTCTGATCCCTTGGACATGAAGGG-GGGCATATTATGAT 635
Db 370 ACAATTTGAATTTGGCATCCCTCTGATCCCTTGGACATGAAGGGGAGGCATATTATGAT 429
QY 636 GCCTTCATGACAGAGGATGAGAGGCTCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCCT 695
Db 430 GCCTTCATGACAGAGGATGAGAGGCTCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCCT 489
QY 696 CAAGAAATTAACAATTTGTTCTGTGTGATCTGTGAGCATCTGAAATACCAAGAGCAGA 755
Db 490 CAAGAAATTAACAATTTGTTCTGTGTGATCTGTGAGCATCTGAAATACCAAGAGCAGA 549
QY 756 TCATATATTTTGTTCACCATCTCTTTTGTGTAATAAATTTTGAATGTGCTTGAAGTGA 815
Db 550 TCATATATTTTGTTCACCATCTCTTTTGTGTAATAAATTTTGAATGTGCTTGAAGTGA 609
QY 816 AAAGCAATCAATATATACCAACCAACCACTGAAGTATTTCACGACTCAAAAT 875
Db 610 AAAGCAATCAATATATACCAACCAACCACTGAAGTATTTCACGACTCAAAAT 669
QY 876 ATTCTAAATATATTTTCTGACAGTATAGTGTATAAATGTGGTCAATGTTAGTT 935

```

Db      670 ATTCTAAATATTTTCTGACAGTATAGTGTATAAATGGTGCATGTGTATTTAGTT 729
        |||||||
Qy      936 ATTGATTTAAGCATTTTGAAGAATAAGACAGGCATATGTATATATTTTC 985
        |||||||
Db      730 ATTGATTTAAGCATTTTGAAGAATAAGACAGGCATATGTATATATTTTC 779
        |||||||

RESULT 4
LOCUS   BU689227/c
DEFINITION UI-CF-ECL-adv-i-18-0-UI.s1 UI-CF-ECL Homo sapiens cDNA clone
ACCESSION BU689227
VERSION   BU689227.1 GI:23546785
KEYWORDS EST.
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 782)
AUTHORS  Bonaldo,M.P., Lennon,G. and Soares,M.B.
TITLE    Normalization and subtraction: two approaches to facilitate gene
JOURNAL  Genome Res. 6 (9), 791-806 (1996)
MEDLINE  97044477
PUBMED   8889548
COMMENT  Contact: McCray, PB
         University of Iowa
         2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
         Tel: 319 356 4866
         Fax: 319 356 7171
         Email: paul-mccray@uiowa.edu
         Tissue Procurement: Dr. M. J. Welsh, University of Iowa
         cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
         cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
         DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
         Clone Distribution: Researchers may obtain clones from Research
         Genetics (www.resgen.com) or from Open Biosystems
         (www.openbiosystems.com).
         Seq primer: M13 FORWARD
         POLYA=Yes.

FEATURES             Location/Qualifiers
     source            1..782
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="UI-CF-ECL-adv-i-18-0-UI"
                     /tissue_type="Lung"
                     /dev_stages="Adult and Fetal"
                     /lab_host="DH10B (Life Technologies) (T1 phage resistant)*"
                     /clone_lib="UI-CF-ECL"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified Polylinker; Site_1: EcoR I; Site_2: Not I;
                     UI-CF-ECL is a normalized cDNA library containing the
                     following tissue(s): Normal lung from adult and from fetal
                     day 64, day 87, week 19 and week 42. The library was
                     constructed according to Bonaldo, Lennon and Soares,
                     Genome Research, 6:791-806, 1996. First strand cDNA
                     synthesis was primed with an oligo-dT primer containing a
                     Not I site. Double stranded cDNA was ligated to an EcoR I
                     adaptor, digested with Not I, and cloned directionally
                     into pT7T3-Pac vector. The oligonucleotide used to prime
                     the synthesis of first-strand cDNA contains a library tag
                     sequence that is located between the Not I site and the
                     (dT)18 tail. The sequence tag for this library is
                     AAGTGCCTTAC.
                     TAG TISSUE=Normal Lung Epithelial Cells Tissue nos 369-371
                     and 380-383
                     TAG LIB=UI-CF-ECL
                     TAG_SEQ=AAGTGCCTTAC"

ORIGIN

```

```

Query Match      55.2%; Score 743.6; DB 13; Length 782;
Best Local Similarity 98.6%; Pred. No. 3.7e-98;
Matches 749; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy      585 AAATGGCATCCCTCTGATCCCTCGACATGAAGGGGCGCATATTAATGATGCTTCATG 644
        |||||||
Db      760 AAAATGCAATCCCTCTGATCCCTCGACATGAAGGGGCGCATATTAATGATGCTTCATG 701
        |||||||
Qy      645 ACAGAGGATGAGAGGCTCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCTCAAGAAAT 704
        |||||||
Db      700 ACAGAGGATGAGAGGCTCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCTCAAGAAAT 641
        |||||||
Qy      705 AAACATTTGTTTCTGTGTGA CTGCTGAGCATCTCTGAAATACCAAGAGCAGATCATATAT 764
        |||||||
Db      640 AAACATTTGTTTCTGTGTGA CTGCTGAGCATCTCTGAAATACCAAGAGCAGATCATATAT 581
        |||||||
Qy      765 TTGTTTCCACCATCTCTTTTCTTAATAATTTTGAATGCTTGAAGTGAAAGCAATC 824
        |||||||
Db      580 TTGTTTCCACCATCTCTTTTCTTAATAATTTTGAATGCTTGAAGTGAAAGCAATC 521
        |||||||
Qy      825 AATTATACCCACCAACACCACTGAAATCATAGCTATTTCACGACTCAAAATATTTCTAAAA 884
        |||||||
Db      520 AATTATACCCACCAACACCACTGAAATCATAGCTATTTCACGACTCAAAATATTTCTAAAA 461
        |||||||
Qy      885 TATTTTCTGACAGTATAGTGTATAAATGTGTCTCATGTGTTATTTGTAGTTATTTGATTTA 944
        |||||||
Db      460 TATTTTCTGACAGTATAGTGTATAAATGTGTCTCATGTGTTATTTGTAGTTATTTGATTTA 401
        |||||||
Qy      945 AGCATTTTGTAGAAATAAGATCAGGCATATGATATATATTTTTCACACTTCAAGACCTTAAGG 1004
        |||||||
Db      400 AGCATTTTGTAGAAATAAGATCAGGCATATGATATATATTTTTCACACTTCAAGACCTTAAGG 341
        |||||||
Qy      1005 AAAAAATAAATTTTCCAGTGGGAATACATATAATATGTTGTAGAAATCAATTGAAAAATGGA 1064
        |||||||
Db      340 AAAAAATAAATTTTCCAGTGGGAATACATATAATATGTTGTAGAAATCAATTGAAAAATGGA 281
        |||||||
Qy      1065 TCCTTTTGGAGATCACTTATATCTCTGTATATGA CTAAGTAAACAAAGTGAGAAAT 1124
        |||||||
Db      280 TCCTTTTGGAGATCACTTATATCTCTGTATATGA CTAAGTAAACAAAGTGAGAAAT 221
        |||||||
Qy      1125 AATTATTTGTAATGATGATAAATAAGTAATGTAATCTCATATACAGGTGGAATTTTATCC 1184
        |||||||
Db      220 AATTATTTGTAATGATGATAAATAAGTAATGTAATCTCATATACAGGTGGAATTTTATCC 161
        |||||||
Qy      1185 TGTATACACCAACAGTTGATTATATATTTTCTGAATATCAGCCCTAATAGGCAAT 1244
        |||||||
Db      160 TGTATACACCAACAGTTGATTATATATTTTCTGAATATCAGCCCTAATAGGCAAT 101
        |||||||
Qy      1245 CTATTTGTTGACCAATTTACAAATTTGTAAAGTCCAATCTGTCTTAATTAAGTA 1304
        |||||||
Db      100 CTATTTGTTGACCAATTTTACAAATTTGTAAAGTCCAATTTGTGCTTAATTAAGTA 41
        |||||||
Qy      1305 ATAATCATCTCTTTTAAATAAAAAAAAAAAAAAAAAAAAAA 1344
        |||||||
Db      40 ATAATCATCTCTTTTAAATAAAAAAAAAAAAAAAAAAAAAA 1

RESULT 5
LOCUS   BG194741
DEFINITION RST13907 Athersys RAGE Library Homo sapiens cDNA, mRNA sequence.
ACCESSION BG194741
VERSION   BG194741.1 GI:13716428
KEYWORDS EST.
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 826)
AUTHORS  Harrington,J.J., Sherf,B., Rundlett,S., Jackson,P.D., Perry,R.,
         Cain,S., Leventhal,C., Thornton,M., Ramachandran,R.,
         Whittington,J., Lerner,L., Costanzo,D., McElligott,K., Booser,S.,

```

Mays, R., Smith, E., Veloso, N., Klika, A., Hess, J., Cothren, K., Lo, K.,
Offenbacher, J., Danzig, J. and Ducar, M.
Creation of genome-wide protein expression libraries using random
activation of gene expression

TITLE
JOURNAL
MEDLINE
PUBMED
COMMENT

Nat. Biotechnol. 19 (5), 440-445 (2001)
21227151
11329013
Contact: Scott J. Cain
Athersys, Inc.
3201 Carnegie Ave, Cleveland, OH 44115, USA
Tel: 216 431 9900
Fax: 216 361 9596
Email: scain@atersys.com
High quality sequence stop: 541.
Location/Qualifiers

FEATURES
source

1. .826
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cell_line="HT1080"
/clone_lib="Athersys RAGE Library"
/note="See 'Creation of Genome-wide Protein Expression
Libraries using Random Activation of Gene Expression',
Nature Biotechnology, in press. Note that even though the
cell type indicated is HT1080, since a random activation
method was used, these sequence tags are not necessarily
expressed in HT1080 under normal circumstances."

ORIGIN

Query Match 54.7%; Score 736.6; DB 12; Length 826;
Best Local Similarity 96.7%; Pred. No. 3.6e-97;
Matches 792; Conservative 0; Mismatches 23; Indels 4; Gaps 4;
Qy 324 AATGACCAAGACCGGATCAACATGCTCTTCTTAAATGACCAACTCGGAATTTT 383
Db 8 AATAGNCAANACCGGATCAACATGCTCTTCTTAAATGACCAACTCGG-ATTTT 66
Qy 384 AAAATCCCTCCACACTTGCACCAACCATGACCCCATCTGCCCCATCTGGATTATTAT 443
Db 67 AAAATCCCTCCACACTTGCACCAACCATGACCCCATCTGCCCCATCTGGATTATTAT 126
Qy 444 ATTTGGTGTGATATTTTCATCATCATAGTTGCAATTCACCTACCTGATTTTATCAGGAT 503
Db 127 ATTTGGTGTGATATTTTCATCATCATAGTTGCAATTCACCTACCTGATTTTATCAGGAT 186
Qy 504 CTGGCAACGTAGAAGAAAGAAACAAAGAACCATCTGAAGTGGATGCGCTGAAGATAAGTG 563
Db 187 CTGGCAACGTAGAAGAAAGAAACAAAGAACCATCTGAAGTGGATGCGCTGAAGATAAGTG 246
Qy 564 TGAACACATGATCACAATTGAATGGCATCCCTCTGATCCCTGGACATGAAGGG-GG 622
Db 247 TGAACACATGATCACAATTGAATGGCATCCCTCTGATCCCTGGACATGAAGGGAGG 306
Qy 623 GCATATTATGATGCTTCATGACAGAGATGAGAGGCTCACCCCTCTCTGAAGGGCTGT 682
Db 307 GCATATTATGATGCTTCATGACAGAGATGAGAGGCTCACCCCTCTCTGAAGGGCTGT 366
Qy 683 TGTTCCTGCTCTCAAGAAATTAACATTTTGTCTGTGCTGCTGAGCATCTCGAAA 742
Db 367 TGTTCCTGCTCTCAAGAAATTAACATTTTGTCTGTGCTGCTGAGCATCTCGAAA 426
Qy 743 TACCAAGACGATCATATATTTTGTTCACATCTCTCTTTGTATATAAATTTTGAATG 802
Db 427 TACCAAGACGATCATATATTTTGTTCACATCTCTCTTTGTATATAAATTTTGAATG 486
Qy 803 TGCTTTGAAGTGAAAGCAATCAATTATACCCCAACACACCATGGAATCATAGCTATT 862
Db 487 TGCTTTGAAGTGAAAGCAATCAATTATACCCCAACACACCATGGAATCATAGCTATT 546
Qy 863 CACGACTCAAAATATTTCTAAATATTTTCTGACAGTATAGTGTATAAATGTGGTCATGT 922
Db 547 CACGACTCAAAATATTTCTAAATATTTTCTGACAGTATAGTGTATAAATGTGGTCATGT 606

Qy 923 GGTATTTCTAGTATTGTTTAAAGCAATTTTAAAGATTAAGATCAGGCATATGTATATA-T 981
Db 607 GGTATTTCTAGTATTGTTTAAAGCAATTTTAAAGATTAAGATCAGGCATATGTATATA-T 666
Qy 982 TTTTCACACTTCAAGACACCTTAAGCAAAAATAAATTTTCCAGTGGAGAAATACATAATAAT- 1040
Db 667 TTTTCACACTTCAAGACACCTTAAGCAAAAATAAATTTTCCAGTGGAGAAATACATAATAATG 726
Qy 1041 GGTGTAGAAATCATTTGAAATGATGCTTTTTCAGCATCATCTATATCATCTCTGTATATG 1100
Db 727 GGTGTAGAAATCATTTGAGAAAGGATCTTTTTCAGCATCATCTATATCATCTCTGTATATG 786
Qy 1101 ACTTAAGTAAACAAAGATGAGAGTAAATTAATTCGTAATGG 1139
Db 787 AACTAAGAAACACAAAGTGGAGTAAATTAATTCGTAATGG 825

RESULT 6

BG211841
LOCUS BG211841 788 bp mRNA linear EST 21-APR-2001
DEFINITION RST31414 Athersys RAGE Library Homo sapiens cdNA, mRNA sequence.
ACCESSION BG211841
VERSION BG211841.1 GI:13733528
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
1 (bases 1 to 788)
Harrington, J.J., Sherf, B., Rundlett, S., Jackson, P.D., Perry, R.,
Cain, S., Leventhal, C., Thornton, M., Ramachandran, R.,
Whittington, J., Lerner, L., Costanzo, D., McElligott, K., Booser, S.,
Mays, R., Smith, E., Veloso, N., Klika, A., Hess, J., Cothren, K., Lo, K.,
Offenbacher, J., Danzig, J. and Ducar, M.
Creation of genome-wide protein expression libraries using random
activation of gene expression

TITLE

JOURNAL

MEDLINE

PUBMED

COMMENT

CONTACT: Scott J. Cain

Address: Athersys, Inc.

3201 Carnegie Ave, Cleveland, OH 44115, USA

Tel: 216 431 9900

Fax: 216 361 9596

Email: scain@atersys.com

High quality sequence stop: 554.

Location/Qualifiers

1. .788

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/cell_line="HT1080"

/clone_lib="Athersys RAGE Library"

/note="See 'Creation of Genome-wide Protein Expression"

Libraries using Random Activation of Gene Expression",

Nature Biotechnology, in press. Note that even though the

cell type indicated is HT1080, since a random activation

method was used, these sequence tags are not necessarily

expressed in HT1080 under normal circumstances."

ORIGIN

Query Match 54.4%; Score 732; DB 12; Length 788;
Best Local Similarity 98.2%; Pred. No. 1.7e-96;
Matches 771; Conservative 0; Mismatches 11; Indels 3; Gaps 3;

Qy 210 AATTTCCCATCTCTCTTCTTCAATGTAACCCAGAGGGTATCATCTCTGTTTGTGTTAC 269
Db 6 AATTTCCCATCTCTCTTCTTCAATGTAACCCAGAGGGTATCATCTCTGTTTGTGTTAC 65
Qy 270 AGACCCCTTCAAAAATCAACCCCTTCTGCTGTTGAGGTGCAATCAGCCATGAAGATGAA 329
Db 66 AGACCCCTTCAAAAATCAACCCCTTCTGCTGTTGAGGTGCAATCAGCCATGAAGATGAA 125

330 CAAGAACCGGATCAACATGCTCTTCTTAATGACCAAACTCTGGAATTTTAAAT 389
Db |||||
126 CAAGAACCGGATCAACATGCTCTTCTTAATGACCAAACTCTGGAATTTTAAAT 184
QY |||||
390 CCCTTCCACATCTGCACACCAATGAGACCCATCTGTGCCATCTCGATATATATTTGG 449
Db |||||
185 CCCTTCCACATCTGCACACCAATGAGACCCATCTGTGCCATCTCGATATATATTTGG 244
QY |||||
450 TGTGATATTTTGCATCATATAGTTGGCAATGCGATCTACTGATTTATCGAGGATCTGGCA 509
Db |||||
245 TGTGATATTTTGCATCATATAGTTGGCAATGCGATCTACTGATTTATCGAGGATCTGGCA 304
QY |||||
510 ACCTAGAGAAAGACCAAGACCAATCTGAAGTGGATGACGCTGAGATAGTGTGAAA 569
Db |||||
305 ACCTAGAGAAAGACCAAGACCAATCTGAAGTGGATGACGCTGAGATAGTGTGAAA 364
QY |||||
570 CATGATCAATTTGAAAATGGCATCCCTCTCATCCCTGGACATCAAGGG- GGGCATAT 628
Db |||||
365 CATGATCAATTTGAAAATGGCATCCCTCTCATCCCTGGACATCAAGGGGAGGCATAT 424
QY |||||
629 TAATGATGCTTCATGACAGGATGAGGGCTCACCCCTCTCTGAAGGGCTGTGTCT 688
Db |||||
425 TAATGATGCTTCATGACAGGATGAGGGCTCACCCCTCTCTGAAGGGCTGTGTCT 484
QY |||||
689 GCTTCTCAAGAAATTAACATTTCTTCTGTGCTGCTGCTGAGCATCTCGAATACCAA 748
Db |||||
485 GCTTCTCAAGAAATTAACATTTCTTCTGTGCTGCTGCTGAGCATCTCGAATACCAA 544
QY |||||
749 GAGCAGATCATATATTTTGTTCACCATCTCTTCTTGTGTAATAATTTGAAATGCTTG 808
Db |||||
545 GAGCAGATCATATATTTTGTTCACCATCTCTTCTTGTGTAATAATTTGAAATGCTTG 604
QY |||||
809 AAAGTGAAGAAACATTAATACCAACCAACCACTGAAATCATAGCTATTCAGAC 868
Db |||||
605 AAAGTGAAGAAACATTAATACCAACCAACCACTGAAATCATAGCTATTCAGAC 664
QY |||||
869 TCAAAATATCTAAATATTTTCTGACAGATAGTGTATAAATGTTGTCATGCTGAT 928
Db |||||
665 TCAAAATATCTAAATATTTTCTGACAGATAGTGTATAAATGTTGTCATGCTGAT 724
QY |||||
929 TGTAGTATTTGATTTAAGCATTTTGTAGAAATAGGATCAGGCATATGTATATTTTACA 988
Db |||||
725 TGTAGTATTTGATTTAAGCATTTTGTAG- AATATGATCAAGCTATGATATTTTACA 783
QY |||||
989 CTTCA 993
Db |||||
784 CTTAA 788

RESULT 7
BG218203
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
COMMENT

EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 801)
Harrington, J.J., Sherf, B., Rundlett, S., Jackson, P.D., Perry, R.,
Cain, S., Leventhal, C., Thornton, M., Ramachandran, R.,
Whittington, J., Lerner, L., Costanzo, D., McElligott, K., Booser, S.,
Mays, R., Smith, E., Veloso, N., Klika, A., Hess, J., Cothren, K., Lo, K.,
Offenbacher, J., Danzig, J., and Ducar, M.
Creation of genome-wide protein expression libraries using random
activation of gene expression
Nat. Biotechnol. 19 (5), 440-445 (2001)
21227151
11329013
Contact: Scott J. Cain
Athersys, Inc.

3201 Carnegie Ave, Cleveland, OH 44115, USA
Tel: 216 431 9900
Fax: 216 361 9596
Email: scaine@atersys.com
High quality sequence stop: 534.
Location/Qualifiers
1. 801
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cell_line="HT1080"
/clone_lib="Athersys RAGE Library"
/note="See 'Creation of Genome-wide Protein Expression
Libraries using Random Activation of Gene Expression', the
Nature Biotechnology, in press. Note that even though
cell type indicated is HT1080, since a random activation
method was used, these sequence tags are not necessarily
expressed in HT1080 under normal circumstances."

ORIGIN

Query Match 54.2%; Score 729; DB 12; Length 801;
Best Local Similarity 96.4%; Pred. No. 4.6e-96;
Matches 767; Conservative 0; Mismatches 26; Indels 3; Gaps 2;
QY 213 TTCCCATGTCCTACTTTCGCAATGTAACCCAGAGGGTATCATCTCTGTTTGTGTTACAGA 272
Db |||||
5 TTTCCATGTCCTACTTTCGCAATGTAACCCAGAGGGTATCATCTCTGTTTGTGTTACAGA 64
QY 273 CCCTTCAAAAATCAACCCCTTCTGCTGTTGAGGTGCAATCAGCCATGAAGATGAACAA 332
Db |||||
65 CCCTTCAAAAATCAACCCCTTCTGCTGTTGAGGTGCAATCAGCCATGAAGATGAACAA 124
QY 333 GAACCGGATCAACATGCTTCTTAAATGACCAACCTCTGGAATTTTAAAAATCCC 392
Db |||||
125 GAACCGGATCAACATGCTTCTTAAATGACCAACCTCTGGAATTTTAAAAATCCC 184
QY 393 TTCCACACTTGCACCAACCCATGAGCCCATCTGTGCCATCTCGATATATATTTTGGTGT 452
Db |||||
195 TTCCACACTTGCACCAACCCATGAGCCCATCTGTGCCATCTCGATATATATTTTGGTGT 244
QY 453 GATATTTTGCATCATCATAGTTGCAATGCACTACTGATTTTATCAGGGATCTGGCAACG 512
Db |||||
245 GATATTTTGCATCATCATAGTTGCAATGCACTACTGATTTTATCAGGGATCTGGCAACG 304
QY 513 TAGAAGAAAGAACCAAGAACCCATCTGAAAGTGGATGACGCTGAAGATAAGTGTGAAACAT 572
Db |||||
305 TAGAAGAAAGAACCAAGAACCCATCTGAAAGTGGATGACGCTGAAGATAAGTGTGAAACAT 364
QY 573 GATCAATTTGAAAATGGCATCCCTCTGATCCCTCGACATCAAGGG- GGGCATATTA 631
Db |||||
365 GATCAATTTGAAAATGGCATCCCTCTGATCCCTCGACATCAAGGGGAGGCATATTA 424
QY 632 TGATGCCCTTCATGACAGAGGATGAGAGGCTCAACCCCTCTCTGAGGGGCTGTGTTCTGCT 691
Db |||||
425 TGATGCCCTTCATGACAGAGGATGAGAGGCTCAACCCCTCTCTGAGGGGCTGTGTTCTGCT 484
QY 692 TCCTCAAGAAATTAACCAATTTGTTCTGTGCTGCTGAGCATCTCGAATACCAAGAG 751
Db |||||
485 TCCTCAAGAAATTAACCAATTTGTTCTGTGCTGCTGAGCATCTCGAATACCAAGAG 544
QY 752 CAGATCATATATTTTGTGTTTCCACATTTCTTCTTGTGTAATAATTTTGAATGTCTTGA 811
Db |||||
545 CAGACCATATATTTTGTGTTTCCACATTTCTTCTTGTGTAATAATTTTGAATGTCTTGA 604
QY 812 GTGAAAAGCAATTAATATACCCACCAACCACTGAAATCATAGCTATTCAGACTCA 871
Db |||||
605 GTGAAAAGCAATTAATATACCCACCAACCACTGAAATCATAGCTATTCAGACTCA 664
QY 872 AAATATTTCTAAATATTTTCTGACAGTATAGTGTATAAATGCTGCTGATGTTT 929
Db |||||
665 NAATATTTCTAAATATATTTTCTGACAGTATATGTAATAAATGACGGCATGTTGTTATTT 724
QY 930 GTAGTTATTTGATTTAAGCATTTTGTAGAAATAGATCAGGCATATGTATATTTTTCAC 989

```

Db      725  GGAGTATTGAAATTAAGCATTTTAAATAAAGATCAGGCATTTGTATATATTTCCACAT 784
Qy      990  TTCAAGACCTTAAGGA 1005
Db      785  TCATAAAACCAAGGAA 800

RESULT 8
CA312017/c
LOCUS      750 bp mRNA linear EST 04-NOV-2002
DEFINITION UI-CF-PNO-afj-e-08-0-UI.s1 UI-CF-PNO Homo sapiens cDNA clone
ACCESSION UI-CF-PNO-afj-e-08-0-UI 3', mRNA sequence.
VERSION    CA312017.1 GI:24530115
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS    Ronaldo,M.F., Lennon,G. and Soares,M.B.
TITLE      Normalization and subtraction: two approaches to facilitate gene
JOURNAL    discovery
MEDLINE    Genome Res. 6 (9), 791-806 (1996)
PUBMED     9704477
COMMENT     8889548
Contact: McCray, PB
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccray@uiowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
cDNA Library prepared by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com) or from Open Biosystems
(www.openbiosystems.com)
Seq primer: M13 FORWARD
POLYA-res.

FEATURES
source
1..750
location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-CF-PNO-afj-e-08-0-UI"
/tissue_type="Human Lung Epithelial cells"
/lab_host="DH10B (Life Technologies) (T1 phage resistant)"
/clone_lib="UI-CF-PNO"
/note="Organ: Lung; Vector: p773-Pac (Pharmacia) with a
modified polylinker; Site: 1: Ecor I; Site 2: Not I;
UI-CF-PNO is a subtracted cDNA library derived from two
normalized Human lung epithelial cell libraries (EN1 and
DUL) The library was subtracted according to according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. For additional information, contact:
bento-soares@uiowa.edu
TAG_TISSUE=Human Lung Epithelial Cell Lines untreated LPS
6hr to LPS 24h
TAG_LIB=UI-CF-PNO
TAG_SEQ=CTGCTCAGTG"

ORIGIN
Query Match 53.2%; Score 715.4; DB 14; Length 750;
Best Local Similarity 98.8%; Pred. No. 4.4e-94;
Matches 741; Conservative 0; Mismatches 7; Indels 2; Gaps 2;

Qy      598  TCTGATCCCTGGACATGACGGG-GGGCATATTATGATGCTTCATGACAGGATGAG 656
Db      750  TCTGATCCCTGGACATGACGGGAGGGCATATTATGATGCTTCATGACAGGATGAG 691

```

```

Qy      657  AGGCTCACCCCTCTCTGAAGGGCTGTGTCTGCTTCTCTCAAGAAATTAACATTTGTTT 716
Db      690  AGGCTCACCCCTCTCTGAAGGGCTGTGTCTGCTTCTCTCAAGAAATTAACATTTGTTT 631
Qy      717  CTGTGTGACTGCTGAGCATCTCGAATACCAAGAGCAGATCATATATTTTGTTCACCAT 776
Db      630  CTGTGTGACTGCTGAGCATCTCGAATACCAAGAGCAGATCATATATTTTGTTCACCAT 571
Qy      777  TCTCTTTTGTATAATAATTTTGAATGTGCTTCAAAAGTGAAGAGCAATCAATATATACCCAC 836
Db      570  TCTCTTTTGTATAATAATTTTGAATGTGCTTCAAAAGTGAAGAGCAATCAATATATACCCAC 511
Qy      837  CAACACCACTGAAATCATAAGCTATTACAGCTCAAAATATTCTAAAATATTCTTCTGAC 896
Db      510  CAACACCACTGAAATCATAAGCTATTACAGCTCAAAATATTCTAAAATATTCTTCTGAC 451
Qy      897  AGTATAGTGTATAATAATGTGCTCATGTGTTTGTAGTTATTGATTTAAGCATTTTGTAGA 956
Db      450  AGTATAGTGTATAATAATGTGCTCATGTGTTTGTAGTTATTGATTTAAGCATTTTGTAGA 391
Qy      957  AATAAGATCAGGCATATGTATATATTTTTCACACTTCAAAAGCTTAAGGAAATAAATTT 1016
Db      390  AATAAGATCAGGCATATGTATATATTTTTCACACTTCAAAAGCTTAAGGAAATAAATTT 331
Qy      1017  TCCAGTGGAGAAATACATATAATATATGTTGTAGAAATCATTTGAAATATGATCCTTTTGAAGC 1076
Db      330  TCCAGTGGAGAAATACATATAATATATGTTGTAGAAATCATTTGAAATATGATCCTTTTGAAGC 271
Qy      1077  ATCACTTATATCACTCTGTATATGCTTAAGTAAACAAAAGTGAGAGTAAATTTATGTTAAA 1136
Db      270  ATCACTTATATCACTCTGTATATGCTTAAGTAAACAAAAGTGAGAGTAAATTTATGTTAAA 211
Qy      1137  TGGATGGATAAAATGGAATTAATCTATATACAG-GGTGAAATTTTATCTCTGTTTATCACAC 1195
Db      210  TGGATGGATAAAATGGAATTAATCTATATACAGNGGTGGAATTTTATCTCTGTTTATCACAC 151
Qy      1196  CAACAGTTGATTATATATTTTCTGAATATCAGCCCTTAATAGACAAATTTCTATTGTTGA 1255
Db      150  CAACAGTTGATTATATATTTTCTGAATATCAGCCCTTAATAGACAAATTTCTATTGTTGA 91
Qy      1256  CCATTTCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAGTAAATTAATCATCTC 1315
Db      90  CCATTTCTACAAATTTGTAAGTCCAAATCTGTGCTAACTTAATAGTAAATTAATCATCTC 31
Qy      1316  TTTTAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1345
Db      30  TTTTGTGTTGAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1

RESULT 9
LOCUS      BG429174
DEFINITION BG429174 Homo sapiens 780 bp mRNA linear EST 14-MAR-2001
ACCESSION BG429174
VERSION    BG429174.1 GI:13335680
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS    NIH-MGC http://mgi.nci.nih.gov/
TITLE      1 (bases 1 to 780)
JOURNAL    National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT    Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Prepared by: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be

```


694 CTCAAGAAATTAAACATTGTCTGT-GTGACTGCTGAGCATCCTGAAATACCAAGAGC 752

ف

457 TTTTGCATCATCATAGTTGCAATTGCACCTACTGATTTTATCAGGGATCTGGCAACGTAGA 516


```
|||||
Db 251 TTTTGCATCATAGTTGCAATTTGCACTACTGATTTTATCAGGATCTGGCAAGTAGA 310
Qy 517 AGAAGAACAAAGAACCACTCTGAAGTGATGACGCTGAAGTAAGTGTGAAGAACATGATC 576
Db 311 AGAAGAACAAAGAACCACTCTGAAGTGATGACGCTGAAGTAAGTGTGAAGAACATGATC 370
Qy 577 ACAATTGAAATGGATCCCTCTGATCCCTGATCCCTGATGACATGAAGGG-GGGCATATTAAATGAT 635
Db 371 TCAATTGAAATGGATCCCTCTGATCCCTGATCCCTGATGACATGAAGGGGAGGAGGATATTAAATGAT 430
Qy 636 GCCTTCATGACAGAGGATGAGAGGCTCACCCCTCTCTGAAAGGGCTGTGTCTGCTTCCT 695
Db 431 GCCTTCATGACAGAGGATGAGAGGCTCACCCCTCTCTGAAAGGGCTGTGTCTGCTTCCT 490
Qy 696 CAAGAAATTAACATTTGTTTCTGTGTGACTGCTGAGCATCTCTGAATACCAAGAGCAGA 755
Db 491 CAAAAATTAACATTTGTTTCTGTGTGACTGCTGAGCATCTCTGAATACCAAGAGCAGA 550
Qy 756 TCATATATTTTGTTCACCATCTCTTTTGTATTAATTTTGAATGCTGTGAAGTGA 815
Db 551 TCATATATTTTGTTCACCATCTCTTTTGTATTAATTTTGAATGCTGTGAAGTGA 610
Qy 816 AAAGCAATCAATTATACCCACCAACACACACTGAATCATAGCTATTACAGACTCAAAAT 875
Db 611 AAAGCAATCAATTATACCCACCAACACACTGAATCATAGCTATTACAGACTCAAAAT 670
Qy 876 ATTCTAAATATTTTCTGACAGTATAGTGTATTAATGCTGATGCTGTGATTTGTAGTT 935
Db 671 ATTCTAAATATTTTCTGACAGTATAGTGTATTAATGCTGATGCTGTGATTTGTAGTT 730
Qy 936 ATTCAATTAGCATTTTGTAGAA 957
Db 731 ATTCAATTAGCATTTTGTAGAA 752
```

```
RESULT 11
LOCUS BG400845
DEFINITION 602464068F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4592296 5',
mRNA sequence.
VERSION BG400845
KEYWORDS BG400845.1 GI:13294293
SOURCE EST.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 792)
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapb-r@mail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LiCM330 row: 9 column: 17
High quality sequence stop: 784.
```

```
FEATURES
source
1..792
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4592296"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_75"
/notes="Organ: kidney; Vector: pDNR-LIB (Clontech); Site_1:
SfiI (ggccgcctcgcc); Site_2: SfiI (ggccattatggcc); 5' and
```

```
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGGCAATATGGC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCGCGCGACATGT-(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."

ORIGIN
Query Match 51.6%; Score 695.2; DB 12; Length 792;
Best Local Similarity 98.0%; Pred. No. 3.5e-91;
Matches 747; Conservative 0; Mismatches 8; Indels 7; Gaps 4;

Qy 1 GAAAGAAATGTTGTGGCTCTCTTTTCTGTGTGAGTGCATTTTCATGCTGAATCTGTCAA 60
Db 26 GAAAGAAATGTTGTGGCTCTCTTTTCTGTGTGAGTGCATTTTCATGCTGAATCTGTCAA 85
Qy 61 CCAGGTGACAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAAGCTCTGGAGATAAA 120
Db 86 CCAGGTGACAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAAGCTCTGGAGATAAA 145
Qy 121 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGCTAGCTTTCTCCATG 180
Db 146 GCATATGCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGCTAGCTTTCTCCATG 205
Qy 181 AGAAAGTTCCTCAACAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC 240
Db 206 AGAAAGTTCCTCAACAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACC 265
Qy 241 CAGAGGTATCATTTCTGTGTTTACAGACCCCTTCAAAAATTCACACCCCTTCTGCT 300
Db 266 CAGAGGTATCATTTCTGTGTTTACAGACCCCTTCAAAAATTCACACCCCTTCTGCT 325
Qy 301 GTTCAGGTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACAATGCCCTTTCTTA 360
Db 326 GTTCAGGTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACAATGCCCTTTCTTA 385
Qy 361 AATGACCAAACTCTGGAAATTTTAAAAATCCCTTCCACACTTGGACCCCAATGGACCCA 420
Db 386 AATGACCAAACTCTGGAAATTTTAAAAATCCCTTCCACACTTGGACCCCAATGGACCCA 445
Qy 421 TCTGTGCCATCTGGATTTATTTTGTGTGATATTTTGTGATATTTTGTGATATTTGCAATT 480
Db 446 TCTGTGCCATCTGGATTTATTTATTTTGTGTGATATTTTGTGATATTTTGTGATTT 505
Qy 481 GCATCTGATTTTATCAGGGATCTGCAACAGTGAAGAACCAAGAACCAATCTGAA 540
Db 506 GCATCTGATTTTATCAGGGATCTGCAACAGTGAAGAACCAAGAACCAATCTGAA 565
Qy 541 GTGATGACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAAATGGCATCCCTCT 600
Db 566 GTGATGACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAAATGGCATCCCTCT 625
Qy 601 GATCCCTTGGACATGAAGGG---GGGCAATTAATGATGCTCTCA-TGACAGAGATGAG 656
Db 626 GATCCCTTGGACATGAAGGGGAGCGCCATATTAATGATGCTCTTCAATTGACAGAGATGAG 685
Qy 657 AGGCTCACCCCTCTCTGAAGGGCTGTGTTCTGCG-TTCCTCAAGAAATTT--AAACATTG 713
Db 686 AGGCTCACCCCTCTCTGAAGGGCTGTGTTCTGCTTCTCTCAGAAATTTGAAACATTG 745
Qy 714 TTTCTGTGTGACTGCTGAGCATCTCGAAATACCAAGAGCAGA 755
Db 746 TTTCTGTGTGACTGCTGAGCATTTCTGGAATTTCCAGAGCAGA 787

RESULT 12
LOCUS BG400319
DEFINITION 602464526F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4592575 5',
mRNA sequence.
ACCESSION BG400319
```

```
VERSION BG400319.1 GI:13293767
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE 1 (bases 1 to 791)
JOURNAL NIH-MGC http://mgi.nci.nih.gov/.
COMMENT National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: LLM131 row: c column: 08
High quality sequence stop: 711.
Location/Qualifiers
1. 791
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4592575"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH MGC 75"
/note="Organ: Kidney; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggcgctggcc); Site 2: SfiI (ggcgattggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CAGCGCCATTATGGC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCGCGCCGACATG-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."
ORIGIN
Query Match 50.2%; Score 675.4; DB 12; Length 791;
Best Local Similarity 97.7%; Pred. No. 2.5e-88;
Matches 749; Conservative 0; Mismatches 11; Indels 7; Gaps 6;
QY 1 GAAAGAATTTGGGCTGCTCTTTTCTGGTGAATGCGCATTCATGCTGAATCTGTCAA 60
DB 25 GAAAGAATTTGGGCTGCTCTTTTCTGGTGAATGCGCATTCATGCTGAATCTGTCAA 84
QY 61 CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
DB 85 CCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 144
QY 121 GCATATGCTGGATACCAATCAAGTAATCCTCTTCAAGCGATGTAGCTTTCTCCATG 180
DB 145 GCATATGCTGGATACCAATCAAGTAATCCTCTTCAAGCGATGTAGCTTTCTCCATG 204
QY 181 AGAAAATGTTCCCAACAGAGAACCAAGAAAATTTCCATGCTCTACTTTGCAATGTAACC 240
DB 205 AGAAAATGTTCCCAACAGAGAACCAAGAAAATTTCCATGCTCTACTTTGCAATGTAACC 264
QY 241 CAGAGGATATCATTTCTGGTTTGGTTACAGACCTTTCAAAAATCAGACCTTCTGTGT 300
DB 265 CAGAGGATATCATTTCTGGTTTGGTTACAGACCTTTCAAAAATCAGACCTTCTGTGT 324
QY 301 GTTAGGTGCAATCAGCCATAGATGAACAGAGCCGATCAACAATGCTTTCTTCTA 360
DB 325 GTTAGGTGCAATCAGCCATAGATGAACAGAGCCGATCAACAATGCTTTCTTCTA 384
QY 361 AATGACCAAACTCTGAAATTTTAAATAATCCCTTCCACTTTCACACCTTGACCCACCA 420
DB 385 AATGACCAAACTCTGAAATTTTAAATAATCCCTTCCACTTTCACACCTTGACCCACCA 444
```

```
Matches 715; Conservative 0; Mismatches 22; Indels 6; Gaps 3;
QY 61 CCAGGTGCGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120
Db 165 CGAGGTGCGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 224
QY 121 GCATATGCTCGGATACCAATCAAGATACCTCTTCAAGCGCATGGTAGCTTCTCCATG 180
Db 225 GCATATGCTCGGATACCAATCAAGATACCTCTTCAAGCGCATGGTAGCTTCTCCATG 284
QY 181 AGAAAAGTTCACACAGAGAACCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAAC 240
Db 285 AGAAAAGTTCACACAGAGAACCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAAC 344
QY 241 CAGAGGTATCATCTCTGTTTGTGTTTACAGACCTCTTCAAAAATCAACACCTCTCTGCT 300
Db 345 CAGAGGTATCATCTCTGTTTGTGTTTACAGACCTCTTCAAAAATCAACACCTCTCTGCT 404
QY 301 GTTGAGGTGCAATCAGCCATAGATGAACAGAACCGGATCAACAATGCGCTTCTTCTA 360
Db 405 GTTGAGGTGCAATCAGCCATAGATGAACAGAACCGGATCAACAATGCGCTTCTTCTA 464
QY 361 AATGACCAAACTCTGGAATTTTAAATPCCCTTCCACACTTGCACACCCCATGACCCA 420
Db 465 AATGACCAAACTCTGGAATTTTAAATPCCCTTCCACACTTGCACACCCCATGACCCA 524
QY 421 TCTGTGCCCATCTGGAATTAATATTTGGTGTGATATTTGCAATCATATAGTTGCAAT 480
Db 525 TCTGTGCCCATCTGGAATTAATATTTGGTGTGATATTTGCAATCATATAGTTGCAAT 584
QY 481 GCATCTACTGATTTTATCAGGATCTGGCAACCTGACAGAAAGCAACAGAACCACTCA 540
Db 585 GCATCTACTGATTTTATCAGGATCTGGCAACCTGACAGAAAGCAACAGAACCACTCA 644
QY 541 GTGATGACGCTGAAGATAGTGAAGATGCAAAACATGATCACAATTTGAAATGGCATCC 600
Db 645 GTGATGACGCTGAAGATAGTGAAGATGCAAAACATGATCACAATTTGAAATGGCATCC 704
QY 601 GATCCCTGGACATGAAGG-GGGCATATTAATGATGCTTCATGACAGAGATGAGAGG 659
Db 705 GATCCCTGGACATGAAGGAGGCGATATTAATGATGCTTCATGACAGAGATGAGAGG 764
QY 660 CTCACCCC--TCTCTGAAGGCTGTGTTCTGCTTCCCTCAAGAAATTAACATTTGTTTC 717
Db 765 CTCACCCCCTCTCTGAAGGCTGTGTTCTGCTTCCCTCAAGAAATTAACATTTGTTTC 824
QY 718 TGTGTGACTGTGACATCTGAAATACCAAGAGCAGATCATATATTTTGTGTTT---CACC 774
Db 825 TGTGTGACTGTGACATCTGAAATACCAAGAGCAGATCATATATTTTGTGTTTCAACCA 884
QY 775 ATTCTCTTTTGTATAAATTTT 797
Db 885 TTCTTCTTTTGGATAAAATTT 907
```

```
RESULT 14
BG427247
LOCUS 602494304F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4608048 5',
DEFINITION mRNA sequence.
ACCESSION BG427247
VERSION BG427247.1 GI:13333753
KEYWORDS EST.
SOURCE Homo sapiens
ORGANISM Homo sapiens (human)
REFERENCE 1
AUTHORS Sukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
TITLE Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
JOURNAL NIH-MGC http://mgi.nci.nih.gov/.
CONTACT National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
CONTACT: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
```

Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
Cloning Distribution: InCyte Genomics, Inc.
Cloning Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: L16M1349 row: h column: 01
High quality sequence stop: 735.
Location/Qualifiers
1. 855
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4608048"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH MGC 75"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site: 1:
SfiI (ggccattagcc); Site 2: SfiI (ggccattagcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGGCCATATATGCT-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCGCGCGCGCATG-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."

ORIGIN

```
Query Match 49.2%; Score 661.6; DB 12; Length 855;  
Best Local Similarity 95.2%; Pred. No. 2.3e-86;  
Matches 769; Conservative 0; Mismatches 29; Indels 10; Gaps 8;  
QY 1 GAAAGATGTTGTGCTGCTCTTTTCTGTGAGCTGCAATTCATCTGAACCTCTGTCAA 60  
Db 27 GAAAGATGTTGTGCTGCTCTTTTCTGTGAGCTGCAATTCATCTGAACCTCTGTCAA 86  
QY 61 CCAGGTGCGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 120  
Db 87 CCAGGTGCGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAA 146  
QY 121 GCATATGCTCGGATACCAATGAAGATACCTCTTCAAGCGCATGGTAGCTTCTCCATG 180  
Db 147 GCATATGCTCGGATACCAATGAAGATACCTCTTCAAGCGCATGGTAGCTTCTCCATG 206  
QY 181 AGAAAAGTTCACACAGAGAACCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAAC 240  
Db 207 AGAAAAGTTCACACAGAGAACCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAAC 266  
QY 241 CAGAGGTATCATCTCTGTTTGTGTTTACAGACCTCTTCAAAAATCAACACCTCTCTGCT 300  
Db 267 CAGAGGTATCATCTCTGTTTGTGTTTACAGACCTCTTCAAAAATCAACACCTCTCTGCT 326  
QY 301 GTTGAGGTGCAATCAGCCATAGATGAACAGAACCGGATCAACAATGCGCTTCTTCTA 360  
Db 327 GTTGAGGTGCAATCAGCCATAGATGAACAGAACCGGATCAACAATGCGCTTCTTCTA 386  
QY 361 AATGACCAAACTCTGGAATTTTAAATPCCCTTCCACACTTGCACACCCCATGACCCA 420  
Db 387 AATGACCAAACTCTGGAATTTTAAATPCCCTTCCACACTTGCACACCCCATGACCCA 446  
QY 421 TCTGTGCCCATCTGGAATTAATATTTGGTGTGATATTTTGCATCATATAGTTGCAAT 480  
Db 447 TCTGTGCCCATCTGGAATTAATATTTGGTGTGATATTTTGCATCATATAGTTGCAAT 506  
QY 481 GCATCTACTGATTTTATCAGGATCTGGCAACCTGACAGAAAGCAACAGAACCACTCA 539  
Db 507 GCATCTACTGATTTTATCAGGATCTGGCAACCTGACAGAAAGCAACAGAACCACTCA 566  
QY 540 AGTGGATGACCTGAAGATAAGTGTGAAAAATCATGATCAATTTGAAATGGCATCCCTC 599  
Db 567 AGTGGATGACCTGAAGAT-AGTGTGAAAAATCATGATCAATTTGAAATGGCATCCCTC 625
```

FEATURES

source

```
QY 600 TGATCCCTCGACATGAAGG- GGGCATATTAATGATGCTTTCATGAC- AGAGGATGAGA 657
Db 626 TGATCCCTCGACATGAAGGAGGGCATATTAATGATGCTTTCATGACAGAGGATGAGA 685
QY 658 GACTCA- CCCCTCTCGAGGGCTGTGTTCTGCTTCCTCAAGAAATTAACATTTGTTT 716
Db 686 GGCTCACCCCTCTCTGAAAGGGCTGTGTTCTGCTTCCTCAAGAAATTA- -ACATTGTT 742
QY 717 CTGTGTGACTGCTGACATCTCTGAATACCAAGAGCAGATCATATATTTTGTTCACCAT 776
Db 743 CTGTGTGACTG- TGACATCTCTTAACAAACCAAGAGC- GATTATATATTTGTTCCCATCT 800
QY 777 TCTTCTTTTGAATAAAATTTGAATGTG 804
Db 801 TCTTGTAACTTTTGATGTGCTAAAGTG 828

RESULT 15
AY399636
LOCUS
DEFINITION
Homo sapiens HCM0290 gene, VIRTUAL TRANSCRIPT, partial sequence,
genomic survey sequence.
ACCESSION
AY399636
VERSION
AY399636.1 GI:39755625
KEYWORDS
GSS.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 669)
Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A.,
Todd, M.A., Tanenbaum, D.M., Civallo, D.R., Lu, F., Murphy, B.,
Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Shinsky, J.J.,
Adams, M.D. and Cargill, M.
Direct Submission
Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
source
1..669
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
<1..>669
/locus_tag="HCM0290"
gene
ORIGIN
Query Match 48.8%; Score 657; DB 29; Length 669;
Best Local Similarity 99.9%; Pred. No. 1.2e-85;
Matches 668; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 7 ATGTGTGGCTGCTCTTTTCTGGTGACTGCCATTCATGCTGAACCTCTGTCACACAGGT 66
Db 1 ATGTGTGGCTGCTCTTTTCTGGTGACTGCCATTCATGCTGAACCTCTGTCACACAGGT 60
QY 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 126
Db 61 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 120
QY 127 GCCTGGGATACCATGAGATACCTCTTCAAGCGGATGCTTCTCCATCAGAAA 186
Db 121 GCCTGGGATACCATGAGATACCTCTTCAAGCGGATGCTTCTCCATCAGAAA 180
```

```
QY 187 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTCTAATTTGCAATGTAAACCCAGAGG 246
Db 181 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTCTAATTTGCAATGTAAACCCAGAGG 240
QY 247 GTATCATTTCTGGTTTGTGTTTACAGACCCCTTCAAAAATACACACCCCTTCTGCTGTTGAG 306
Db 241 GTATCATTTCTGGTTTGTGTTTACAGACCCCTTCAAAAATACACACCCCTTCTGCTGTTGAG 300
QY 307 GTGCAATCAGCCATGAATGAACCAAGAACCGGATCAACAATGCTTTCTTTCTAAATGAC 366
Db 301 GTGCAATCAGCCATGAATGAACCAAGAACCGGATCAACAATGCTTTCTTTCTAAATGAC 360
QY 367 CAAACTCTGGAATTTTAAAAATCCCTTCACACACTTGCACCCACCCATGGACCCATCTGTG 426
Db 361 CAAACTCTGGAATTTTAAAAATCCCTTCACACACTTGCACCCACCCATGGACCCATCTGTG 420
QY 427 CCCATCTGGATTATTATATTTTGGTGTGATATTTTGGCATCATCATAGTTGCAATTTGCACTA 486
Db 421 CCCATCTGGATTATTATATTTTGGTGTGATATTTTGGCATCATCATAGTTGCAATTTGCACTA 480
QY 487 CTGATTTTATCAGGGATCTGGCAACGTAGAAGAAAGAACAAAGAACCATCTGAAGTGGAT 546
Db 481 CTGATTTTATCAGGGATCTGGCAACGTAGAAGAAAGAACAAAGAACCATCTGAAGTGGAT 540
QY 547 GACGCTGAAGATAAGTGTGAAACATGATCAAAATGAAAATGCGCATCCCTCTGATCCC 606
Db 541 GACGCTGAAGATAAGTGTGAAACATGATCAAAATGAAAATGCGCATCCCTCTGATCCC 600
QY 607 CTGGACATGAAGGG- GGGCATATTAATGATGCTTTCATGACAGAGGATGAGAGCTCACC 665
Db 601 CTGGACATGAAGGGAGGGGCATATTAATGATGCTTTCATGACAGAGGATGAGAGGCTCACC 660
QY 666 CTTCTCTGA 674
Db 661 CTTCTCTGA 669
```

Search completed: April 3, 2004, 23:26:53
Job time : 3975 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 31, 2004, 12:01:04 ; Search time 60 Seconds
(without alignments)
998.335 Million cell updates/sec

Title: US-09-989-724-387

Perfect score: 1102

Sequence: 1 MLMLFLPLVTAIRAEIQLCPG.....ENGIPSPDLMDKGGILMPPS 212

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A_Geneseq_29Jan04.*

1: Geneseqp1980s.*

2: Geneseqp1990s.*

3: Geneseqp2000s.*

4: Geneseqp2001s.*

5: Geneseqp2002s.*

6: Geneseqp2003as.*

7: Geneseqp2003bs.*

8: Geneseqp2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1102	100.0	212	3	AAY66751 Membrane-
2	1102	100.0	212	3	AAB33447 Human PRO
3	1102	100.0	212	3	AAB24430 Human PRO
4	1102	100.0	212	4	AAU12412 Human PRO
5	1102	100.0	212	4	AAB65274 Human PRO
6	1102	100.0	212	6	ABU58089 Human PRO
7	1102	100.0	212	6	ABU59167 Novel hum
8	1102	100.0	212	6	ABU82679 Human sec
9	1102	100.0	212	6	ABO17856 Novel hum
10	1102	100.0	212	6	ABU60598 Human sec
11	1102	100.0	212	6	ABU13980 Human PRO
12	1102	100.0	212	6	ABU81110 Human PRO
13	1102	100.0	212	6	ABU72565 Novel hum
14	1102	100.0	212	6	ABU66810 Human PRO
15	1102	100.0	212	6	ABU59891 Novel sec
16	1102	100.0	212	6	ABU59314 Human sec
17	1102	100.0	212	6	ABO26011 Human PRO
18	1102	100.0	212	6	ABO25081 Human sec
19	1102	100.0	212	6	ABU59020 Human sec
20	1102	100.0	212	6	ABU92398 Novel hum
21	1102	100.0	212	6	ABU59463 Novel hum
22	1102	100.0	212	6	ABU67086 Human sec
23	1102	100.0	212	6	ABU92229 Novel hum
24	1102	100.0	212	6	ABU10935 Human PRO
25	1102	100.0	212	6	ABU81687 Novel hum

26	1102	100.0	212	6	ABU88626 Human sec
27	1102	100.0	212	6	ABO34140 Human PRO
28	1102	100.0	212	6	ADA46001 Novel hum
29	1102	100.0	212	6	ADA76432 Human PRO
30	1102	100.0	212	6	ADA19082 Human PRO
31	1102	100.0	212	6	ADA61705 Homo sapi
32	1102	100.0	212	6	ADB19490 Novel hum
33	1102	100.0	212	6	ADB28031 Human PRO
34	1102	100.0	212	6	ADA86510 Novel hum
35	1102	100.0	212	6	ADB16074 Human PRO
36	1102	100.0	212	6	ADA37898 Human sec
37	1102	100.0	212	6	ADA47860 Human PRO
38	1102	100.0	212	6	ADA21584 Human sec
39	1102	100.0	212	6	ADA10371 Human sec
40	1102	100.0	212	6	ADA67655 Human PRO
41	1102	100.0	212	6	ADB30662 Human PRO
42	1102	100.0	212	6	ADA85958 Novel hum
43	1102	100.0	212	6	ADA17915 Human PRO
44	1102	100.0	212	6	ADA97170 Human PRO
45	1102	100.0	212	6	ADA79474 Human PRO

ALIGNMENTS

RESULT 1

AAY66751
ID AAY66751 standard; protein; 212 AA.

XX AC AAY66751;

XX DT 05-APR-2000 (first entry)

XX DB Membrane-bound protein PRO1312.

XX KW Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
pharmaceutical; receptor immunoadhesin; gene mapping.

XX OS Homo sapiens.

XX PN WO9963088-A2.

XX PD 09-DEC-1999.

XX PF 02-JUN-1999; 99WO-US012252.

XX PR 02-JUN-1998; 98US-0087607P.

XX PR 02-JUN-1998; 98US-0087609P.

XX PR 03-JUN-1998; 98US-0087759P.

XX PR 04-JUN-1998; 98US-0088021P.

XX PR 04-JUN-1998; 98US-0088025P.

XX PR 04-JUN-1998; 98US-0088028P.

XX PR 04-JUN-1998; 98US-0088029P.

XX PR 04-JUN-1998; 98US-0088030P.

XX PR 04-JUN-1998; 98US-0088033P.

XX PR 05-JUN-1998; 98US-0088167P.

XX PR 05-JUN-1998; 98US-0088202P.

XX PR 05-JUN-1998; 98US-0088212P.

XX PR 05-JUN-1998; 98US-0088217P.

XX PR 09-JUN-1998; 98US-0088655P.

XX PR 10-JUN-1998; 98US-0088722P.

XX PR 10-JUN-1998; 98US-0088730P.

XX PR 10-JUN-1998; 98US-0088734P.

XX PR 10-JUN-1998; 98US-0088738P.

XX PR 10-JUN-1998; 98US-0088740P.

XX PR 10-JUN-1998; 98US-0088741P.

XX PR 10-JUN-1998; 98US-0088742P.

XX PR 10-JUN-1998; 98US-0088810P.

XX PR 10-JUN-1998; 98US-0088811P.

XX PR 10-JUN-1998; 98US-0088824P.

XX PR 10-JUN-1998; 98US-0088825P.

PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089103P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089533P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090343P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090433P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090538P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090691P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091358P.
PR 01-JUL-1998; 98US-0091360P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.

PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0096962P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097951P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 12-JAN-1999; 98US-0115565P.

XX (GETH) GENENTECH INC.

XX Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
PI Wood WI, Yuan J;
XX WPI; 2000-072883/06.

DR N-PSDB; AAZ65097.

PT Membrane-bound proteins and related nucleotide sequences.

PS Claim 12; Fig 278; 822pp; English.

XX The invention provides membrane-bound PRO polypeptides and polynucleotides encoding them. The PRO sequences of the invention were identified based on extracellular domain homology screening. The PRO sequences have homology with proteins including LDL receptors, TIE ligands and various enzymes. The membrane-bound proteins and receptor molecules are useful as pharmaceutical and diagnostic agents. Receptor immunoadhesins, for instance, can be used as therapeutic agents to block receptor-ligand interactions. The membrane-bound proteins can also be employed for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. The PRO encoding sequences are useful as hybridization probes, in chromosome and gene mapping and in the generation of antisense RNA and DNA. PRO nucleic acid sequences will also be useful for the preparation of PRO polypeptides, especially by recombinant techniques

XX Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 3; Length 212;

Best Local Similarity 100.0%; Pred. No. 5.8e-114; Indels 0; Gaps 0;
Matches 212; Conservative 0; Mismatches 0;

OY 1 MMLLFFLVTAHAEICQPGNAFKVRLSITATLGDKAYAWDTNREYLFKAWVAFSMRK 60

Db 1 MMLLFFLVTAHAEICQPGNAFKVRLSITATLGDKAYAWDTNREYLFKAWVAFSMRK 60

QY 61 VPNEATEISHVLLCNVTVQVSFWFVVDPSKNHTLPVAVQSAIRMKNRINNAFFLND 120
 PR |||||||
 Db 61 VPNEATEISHVLLCNVTVQVSFWFVVDPSKNHTLPVAVQSAIRMKNRINNAFFLND 120
 PR |||||||
 QY 121 QTLFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAILLILSGIWRKKKEPSVD 180
 PR |||||||
 Db 121 QTLFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAILLILSGIWRKKKEPSVD 180
 PR |||||||
 QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212
 PR |||||||
 Db 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212
 PR |||||||

RESULT 2

AAB33447

ID AAB33447 standard; protein; 212 AA.

AC AAB33447;

XX 29-JAN-2001 (first entry)

XX Human PRO1312 protein UNQ678 SEQ ID NO:161.

XX Human; immune related disease; diagnosis; antiinflammatory; cardiant;
 KW dermatological; antiarthritic; antirheumatic; immunosuppressive;
 KW haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;
 KW antianaemic; hepatotropic; virucide; antiporiatic; antiallergic;
 KW antiaethmic; systemic lupus erythematosus; rheumatoid arthritis;
 KW osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;
 KW idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
 KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
 KW autoimmune thrombocytopaenia; immune-mediated renal disease;
 KW demyelinating disease; hepatobiliary disease; Whipple's disease;
 KW inflammatory bowel disease; gluten-sensitive enteropathy;
 KW autoimmune disease; immune-mediated skin disease; allergic disease;
 KW immunological disease; transplantation associated disease;
 KW graft rejection; graft-versus-host-disease.

XX Homo sapiens.

XX WO200053758-A2.

XX 14-SEP-2000.

XX 02-MAR-2000; 2000WO-US005841.

XX 08-MAR-1999; 99WO-US005028.

XX 10-MAR-1999; 99US-0123618P.

XX 12-MAR-1999; 99US-0123957P.

XX 23-MAR-1999; 99US-0125775P.

XX 12-APR-1999; 99US-0128849P.

XX 20-APR-1999; 99WO-US008615.

XX 28-APR-1999; 99US-0131445P.

XX 04-MAY-1999; 99US-0132371P.

XX 14-MAY-1999; 99US-0134287P.

XX 02-JUN-1999; 99WO-US012252.

XX 23-JUN-1999; 99US-0141037P.

XX 20-JUL-1999; 99US-0144758P.

XX 26-JUL-1999; 99US-0145698P.

XX 28-JUL-1999; 99US-0146222P.

XX 01-SEP-1999; 99WO-US020111.

XX 08-SEP-1999; 99WO-US020594.

XX 13-SEP-1999; 99WO-US020944.

XX 15-SEP-1999; 99WO-US021090.

XX 15-SEP-1999; 99WO-US021547.

XX 05-OCT-1999; 99WO-US023089.

XX 29-OCT-1999; 99US-0162506P.

XX 29-NOV-1999; 99WO-US028214.

XX 30-NOV-1999; 99WO-US028313.

XX 30-NOV-1999; 99WO-US028409.

XX 01-DEC-1999; 99WO-US028301.

XX 01-DEC-1999; 99WO-US028634.

PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028564.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030999.
 PR 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 18-FEB-2000; 2000WO-US004342.
 PR 22-FEB-2000; 2000WO-US004414.
 XX
 XX (GETH) GENENTECH INC.
 XX
 XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
 PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
 PI Stewart TA, Tumas D, Watanabe CK, Wood WL, Yan M;
 XX
 DR WPI; 2000-572271/53.
 DR N-PSDB; AAC58612.

XX Sixty four PRO polypeptides, useful in the diagnosis and treatment of
 PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
 PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus.

PS Claim 33; Fig 68; 309pp; English.

XX The present invention describes sixty four human PRO proteins which can
 CC be used in the treatment of immune related diseases. The human PRO
 CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
 CC treating and diagnosing immune related disorders. The disorders are
 CC selected from systemic lupus erythematosus, rheumatoid arthritis,
 CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
 CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
 CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
 CC anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,
 CC immune-mediated renal disease, demyelinating diseases of the central and
 CC peripheral nervous systems, hepatobiliary diseases, inflammatory bowel
 CC disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune
 CC or immune-mediated skin diseases, allergic diseases, immunological
 CC diseases of the lung, and transplantation associated diseases including
 CC graft rejection and graft-versus-host-disease. AAC58397 to AAC58578
 CC represent PCR primers and hybridisation probes used in the isolation of
 CC human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477
 CC represent human PRO polynucleotide and protein sequences given in the
 CC exemplification of the present invention

XX Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 3; Length 212;
 Best Local Similarity 100.0%; Pred. No. 5.8e-114; Indels 0; Gaps 0;
 Matches 212; Conservative 0; Mismatches 0;

QY 1 MLWLLFFLVTAIHAELCQPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAWAFSMRK 60

Db 1 MLWLLFFLVTAIHAELCQPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAWAFSMRK 60

QY 61 VPNEATEISHVLLCNVTVQVSFWFVVDPSKNHTLPVAVQSAIRMKNRINNAFFLND 120

Db 61 VPNEATEISHVLLCNVTVQVSFWFVVDPSKNHTLPVAVQSAIRMKNRINNAFFLND 120

QY 121 QTLFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAILLILSGIWRKKKEPSVD 180

Db 121 QTLFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAILLILSGIWRKKKEPSVD 180

QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212

Db 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212

RESULT 3

AA24430
ID AAB24430 standard; protein; 212 AA.
XX AC AAB24430;
XX DT 07-NOV-2000 (first entry)
XX DE Human PRO1312 protein sequence SEQ ID NO:214.
XX KW Human; PRO; promotion; inhibition; angiogenesis; cardiovascularisation;
KW diagnosis; trauma; wound; cancer; atherosclerosis; cardiac hypertrophy;
KW angiogenic; proliferative; cardiac; cardiovascular; antiatherosclerotic;
KW cytostatic; gene therapy; vaccine.
XX OS Homo sapiens.
XX PN WO200032221-A2.
XX PD 08-JUN-2000.
XX PP 30-NOV-1999; 99WO-US028313.
XX PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-0112850P.
PR 12-JAN-1999; 99US-0115554P.
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 01-SEP-1999; 99WO-US020111.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-OCT-1999; 99US-0162506P.
XX PA (GETH) GENENTECH INC.
XX PI Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Hillan KJ;
PI Goddard A, Godowski PJ, Gurney AL, Klein RD, Kuo SS, Paoni NF;
PI Smith V, Watanabe CK, Williams PM, Wood WI;
XX WPI: 2000-412154/35.
XX DR N-PSDB; AAB77680.
XX PT Nucleic acids encoding PRO polypeptides useful for preventing, diagnosing
PT and treating disorders in mammals.
XX PS Claim 72; Fig 86; 315pp; English.
XX SS The present invention describes nucleic acids encoding PRO polypeptides
CC useful for preventing, diagnosing and treating disorders in mammals by
CC cardiovascular, endothelial or angiogenic disorder in mammals by
CC modulating cell proliferation, angiogenesis and cardiovascularisation,
CC and for identifying agonists and antagonists of these processes. The
CC nucleic acids and the proteins they encode may be used in the prevention,
CC treatment and diagnosis of diseases associated with inappropriate PRO
CC expression such as cardiovascular, endothelial or angiogenic disorders in
CC mammals (e.g. atherosclerosis, cancers and cardiac hypertrophy). For
CC example, the nucleic acids (NCs) and vectors containing them and the PRO
CC polypeptide may be used to treat disorders associated with decreased PRO
CC expression. AAB77510 to AAB77721 and AAB74388 to AAB24435 represent
CC nucleotide and protein sequences used in the exemplification of the
XX present invention
XX Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 3; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLMLFFLVTAHAEICQPGAEAFKRLSIRITLGDKAYAMDTNEEYLPKAMVAFSMRK 60
DB 1 MLMLFFLVTAHAEICQPGAEAFKRLSIRITLGDKAYAMDTNEEYLPKAMVAFSMRK 60
QY 61 VFNREATRISHVLLCNVTQVSFWFVVTDPKSHHTLPAVEVQSAIRMKNRINNAFFLND 120
DB 61 VFNREATRISHVLLCNVTQVSFWFVVTDPKSHHTLPAVEVQSAIRMKNRINNAFFLND 120
QY 121 QTFLEFKIPSTLAPPMDSPVPIIIFGVIFCIIIVAIALLILSGIWQRKKKSEVD 180
DB 121 QTFLEFKIPSTLAPPMDSPVPIIIFGVIFCIIIVAIALLILSGIWQRKKKSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGILAMPS 212
DB 181 DAEDKCNMTIENGIPSDPLDMKGILAMPS 212
RESULT 4
AAU12412
ID AAU12412 standard; protein; 212 AA.
XX AC AAU12412;
XX DT 24-OCT-2001 (first entry)
XX DE Human PRO1312 polypeptide sequence.
XX KW Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
KW prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
KW ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
KW A-peptide; factor VIIA; gene therapy.
XX OS Homo sapiens.
XX PN WO200140466-A2.
XX PD 07-JUN-2001.
XX PP 01-DEC-2000; 2000WO-US032678.
XX PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 09-DEC-1999; 99US-0170262P.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.

PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 05-JUN-2000; 2000US-0209832P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
XX (GETH) GENENTECH INC.
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI: 2001-408281/43.
DR N-PSDB; AAS21484.
XX
PT Isolated , secretory and transmembrane PRO polypeptide used to detect
PT other PRO polypeptides, link bioactive molecules to cells expressing PRO
PT polypeptides, and detect the presence of mammalian tumors e.g. lung,
PT breast, prostate, cervical.
XX
PS Claim 12; Fig 482; 813pp; English.
XX
PS AAU12172-AAU12446 represent novel human secretory and transmembrane PRO
CC polypeptides. The PRO polypeptides are useful to detect other PRO
CC polypeptides, to link bioactive molecules to cells expressing PRO
CC polypeptides, to modulate biological activities of cells expressing PRO
CC polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample. Some
CC of the 275 sequences are also useful to stimulate the release of tumour
CC necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or
CC differentiation of chondrocytes, the proliferation or gene expression in
CC pericyte cells, the release of proteoglycans from cartilage, the
CC proliferation of inner ear utricular supporting cells or of T-
CC lymphocytes, the release of a cytokine from peripheral blood monocytes
CC (PBMcs), or the proliferation of endothelial cells. Some of the PRO
CC polypeptides may modulate glucose or free fatty acid uptake by skeletal
CC muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
CC VIIA. The PRO polypeptides can be used in assays to identify molecules
CC involved in binding interactions. The polynucleotides encoding PRO
CC polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy
XX
SQ Sequence 212 AA;
Query Match 100.0%; Score 1102; DB 4; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114; Indels 0; Gaps 0;
Matches 212; Conservative 0; Mismatches 0;
QY 1 MLMLFFLVTAHAEICPGAEAFKRLSIRLTALGKAYAWDTNTEYLFRAMVAFSRK 60
DB 1 MLMLFFLVTAHAEICPGAEAFKRLSIRLTALGKAYAWDTNTEYLFRAMVAFSRK 60
QY 61 VFNREATBISHVLLCNVTRQVSFWFVVTDPSPKXHTLPAVEVQSARMMNKRINNAFFLND 120
DB 61 VFNREATBISHVLLCNVTRQVSFWFVVTDPSPKXHTLPAVEVQSARMMNKRINNAFFLND 120
QY 121 QTLFPLKIPSTLAPMPDPSVPIIIFGVIFCIITVAALLISGIMWRRRKNKPESEVD 180
DB 121 QTLFPLKIPSTLAPMPDPSVPIIIFGVIFCIITVAALLISGIMWRRRKNKPESEVD 180
QY 181 DAEDKCNMTTENGIPSPDPLDMKGILMPPS 212
DB 181 DAEDKCNMTTENGIPSPDPLDMKGILMPPS 212

RESULT 5
AAB65274

ID AAB65274 standard; protein; 212 AA.
AC AAB65274;
XX
DT 02-APR-2001 (first entry)
XX Human PRO1312 (UNO678) protein sequence SEQ ID NO:387.
DE Human; secreted and transmembrane protein; PRO; cytostatic; cell death;
KW cancer; chromosomal mapping; gene mapping; tissue typing;
KW diagnostic assay.
XX
OS Homo sapiens.
XX WO2000073454-A1.
XX
PD 07-DEC-2000.
XX
XX 30-MAR-2000; 2000WO-US008439.
XX
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 02-MAR-2000; 2000WO-US005004.
PR 15-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
XX (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
DR WPI: 2001-032160/04.
DR N-PSDB; AAF44243.
XX
PT PRO polynucleotides used to produce polypeptides used to target bioactive
PT molecules such as toxins, radiolabels or antibodies, to specific cells,
PT to cause targeted cell death.
XX
PS Claim 12; Fig 278; 935pp; English.
XX
CC The present invention describes human secreted and transmembrane PRO
CC proteins. The PRO proteins have cytostatic activity. The PRO proteins can
CC be used for targeted delivery of bioactive molecules, such as toxins,
CC radiolabels or antibodies, that cause cell death. PRO nucleotide
CC sequences, and their fragments, can be used as hybridisation probes, in
CC chromosomal and gene mapping, and in the generation of anti-sense RNA and
CC DNA. They may also be used to produce transgenic animals which are used
CC to develop and screen therapeutically useful reagents. The PRO nucleotide
CC and protein sequence can be used for tissue typing and in treating
CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
CC AAF44470 represent PCR primers and hybridisation probes used in the

```
CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to
CC AAB65300 represent human PRO polynucleotide and protein sequences given
CC in the exemplification of the present invention
SQ
SQ Sequence 212 AA;
Query Match 100.0%; Score 1102; DB 4; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114; Indels 0; Gaps 0;
Matches 212; Conservative 0; Mismatches 0;
QY 1 MLMLFFLVTAHAELOCPGAENAFKRLSIRITAGDKYAWDTNEEYLFKAWVAFSRK 60
Db 1 MLMLFFLVTAHAELOCPGAENAFKRLSIRITAGDKYAWDTNEEYLFKAWVAFSRK 60
QY 61 VFNREATEISHVLLCNVTRQVSFWVTDPSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
Db 61 VFNREATEISHVLLCNVTRQVSFWVTDPSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
QY 121 QTLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLTSGIWQRKKKEPSVD 180
Db 121 QTLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLTSGIWQRKKKEPSVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGILLMPS 212
Db 181 DAEDKCNMTIENGIPSDPLDMKGILLMPS 212
RESULT 6
ABUS8089
ID ABUS8089 standard; protein; 212 AA.
XX
AC ABUS8089;
XX
DT 14-APR-2003 (first entry)
XX
DE Human PRO polypeptide #121.
XX
KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.
OS Homo sapiens.
XX
PN US2003027163-A1.
XX
PD 06-FEB-2003.
XX
PF 15-NOV-2001; 2001US-00997666.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0065770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 23-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090542P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091629P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
```

```
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 17-SEP-1998; 98WO-US021141.
PR 07-OCT-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113236P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0143048P.
PR 26-JUL-1999; 99US-0144758P.
PR 28-JUL-1999; 99US-0145698P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US0211547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 02-MAR-2000; 2000WO-US005004.
PR 10-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006319.
PR 20-MAR-2000; 2000WO-US006684.
PR 30-MAR-2000; 2000WO-US007377.
PR 15-MAY-2000; 2000WO-US013358.

PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.

Query Match 100.0%; Score 1102; DB 6; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLLFFLVTAIHAELQCPGAENAFKVLRSIRLTALGDKAYADWTVEEYLFKAWAFPSMRK 60
Db 1 MLLFFLVTAIHAELQCPGAENAFKVLRSIRLTALGDKAYADWTVEEYLFKAWAFPSMRK 60

Qy 61 VPREATEISHVLLCNVTQVRSFVFVTDPSKNHTLPAVEVQSAIRMNQRINNAFFLND 120
Db 61 VPREATEISHVLLCNVTQVRSFVFVTDPSKNHTLPAVEVQSAIRMNQRINNAFFLND 120

Qy 121 QTLEFLKIPSTLAPMPSVPIWIIIFGVIFCIIVAIALLILSGIWQRRRKNKPSYVD 180
Db 121 QTLEFLKIPSTLAPMPSVPIWIIIFGVIFCIIVAIALLILSGIWQRRRKNKPSYVD 180

Qy 181 DAEDKCNMTIENGIPSDPLDMKGILLMPS 212
Db 181 DAEDKCNMTIENGIPSDPLDMKGILLMPS 212

RESULT 7
ABUS9167
ID ABUS9167 standard; protein; 212 AA.
XX AC ABUS9167;
XX DT 28-APR-2003 (first entry)
XX DE Novel human secreted or transmembrane protein PRO1312.
XX KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
XX KW cardiac insufficiency disorder; cancer; tumour; immune response;
XX KW adrenal cortical capillary endothelial growth; c-fos induction;
XX KW vascular endothelial growth factor inhibition; VEGF inhibition;
XX KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
XX KW retinal neurons cell survival; rod photoreceptor cell survival;
XX KW retinal disorder; retinitis pigmentosa; kidney disorder;
XX KW mammalian kidney mesangial cell proliferation; Berger disease;
XX KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
XX KW chondrocyte redifferentiation; sports injury; arthritis.
XX OS Homo sapiens.
XX XX US2002132252-A1.
XX PD 19-SEP-2002.
XX XX 14-NOV-2001; 2001US-00990442.
XX XX 16-JUN-1997; 97US-0049787P.
XX XX 17-OCT-1997; 97US-0062250P.
XX XX 05-NOV-1997; 97WO-US020069.
XX XX 12-NOV-1997; 97US-0065186P.
XX XX 13-NOV-1997; 97US-0085311P.
XX XX 24-NOV-1997; 97US-0066770P.
XX XX 25-FEB-1998; 98US-0075945P.
XX XX 20-MAR-1998; 98US-0078910P.
XX XX 28-APR-1998; 98US-0083322P.
XX XX 07-MAY-1998; 98US-0084600P.
XX XX 28-MAY-1998; 98US-0087106P.
XX XX 02-JUN-1998; 98US-0087607P.
```

PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 05-JUN-1998; 98US-0088157P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000108.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US028634.
PR 01-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.

PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX (GETH) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kijavini LJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX WPI. 2003-247083/24.
DR N-PSDB; AEX80370.
XX
PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
PT are therapeutically useful for enhancing immune response and in cancer
PT treatments.
XX Claim 12; Fig 278; 648pp; English.
XX
CC The invention describes an isolated human PRO polypeptide. The PRO
CC polypeptides are useful in detecting PRO polypeptides in a sample, in
CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
CC in modulating at least one biological activity of a cell expressing a PRO
CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
CC useful for treating conditions or disorders where angiogenesis would be
CC beneficial, e.g. wound healing and antagonism of this polypeptide are
CC useful for treating cancerous tumours. PRO812 inhibits vascular
CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC cells and is thus useful for inhibiting endothelial cell growth in
CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
CC and PRO11066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpetiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and are
CC thus useful for treating sports injuries, and arthritis. This is the
CC amino acid sequence of a novel human PRO protein
XX
SQ Sequence 212 AA;
Query Match 100.0%; Score 1102; DB 6; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLWLLFFLVTAHAEICQFGAENAFKVLRSIRLTALGDKAYADMTNTEYLFKAMVAFSMRK 60
DB 1 MLWLLFFLVTAHAEICQFGAENAFKVLRSIRLTALGDKAYADMTNTEYLFKAMVAFSMRK 60
QY 61 VPNREATEISHVLLCNVTQVRSFVWVTPDSPKNHTLPAVEVQSAIRNKNRINNAPFLND 120
DB 61 VPNREATEISHVLLCNVTQVRSFVWVTPDSPKNHTLPAVEVQSAIRNKNRINNAPFLND 120
QY 121 QTLEFLKIPSTLAPNDPSVPIIIFGVIFPCIIIVAILLILSGLWQRKNKEPSEVD 180


```
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 31-AUG-1998; 98US-0098014P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021108.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 02-JUN-1999; 99WO-US013252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028310.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUL-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.

Query Match 100.0%; Score 1102; DB 6; Length 212;
Best Local Similarity 100.0%; Pred No. 5, 8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLFFLVTAIHAEICQPAENAFKVLRSIRLTALGDKAYAMDTNEEYLFKAMVAFSMRK 60
Db 1 MLWLLFFLVTAIHAEICQPAENAFKVLRSIRLTALGDKAYAMDTNEEYLFKAMVAFSMRK 60
QY 61 VFNREATEISHVLLCNVTQVSFWFVVDPSKNHTLPAVEVQSAIRPMKNRINNAFFLND 120
```

```
Db 61 VFNREATEISHVLLCNVTQVSFWFVVDPSKNHTLPAVEVQSAIRPMKNRINNAFFLND 120
QY 121 QTLEFLKIPSTLAPMPDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRRRKNKBPSEVD 180
Db 121 QTLEFLKIPSTLAPMPDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRRRKNKBPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGILMMP 212
Db 181 DAEDKCNMTIENGIPSDPLDMKGILMMP 212

RESULT 9
ABO17856
ID ABO17856 standard; protein; 212 AA.
XX
AC ABO17856;
XX
DT 26-AUG-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO1312.
XX
KW Human; secreted and transmembrane protein; PRO; anti-inflammatory;
KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;
KW antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;
KW TNF-alpha release; cell proliferation; cell differentiation;
KW gene expression modulator; proteoglycan release; cytokine release;
KW tumour; inflammatory disease; organ failure; atherosclerosis;
KW cardiac injury; infertility; birth defect; premature aging; AIDS;
KW acquired immunodeficiency syndrome; cancer; diabetic complication;
KW chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;
KW bioreactor; tissue typing.
XX
OS Homo sapiens.
XX
PN US2003032156-A1.
XX
PD 13-FEB-2003.
XX
PF 06-MAY-2002; 2002US-00140474.
XX
PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
```

PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 16-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.

(GETH) GENENTECH INC.

PA Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff B, Gao W;
XX Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

XX WPI; 2003-341980/32.
DR N-PSDB; ACD24093.
XX
PT New secreted and transmembrane PRO nucleic acids, for treating
PT inflammation, organ failure, atherosclerosis, cardiac injury,
PT infertility, birth defects, premature aging, acquired immunodeficiency
syndrome (AIDS), or cancer.
XX
PS Claim 12; Fig 482; 660pp; English.
XX
CC The invention describes an isolated nucleic acid (I) comprising, or which
CC has 80 % sequence identity to, or the full-length coding sequence of, one
CC of 275 nucleotide sequences, and which encodes a corresponding
CC polypeptide selected from 275 amino acid sequences, where all sequences
CC are given in the specification. The polypeptide encoded by (I) is used to
CC detect PRO polypeptides, link a bioactive molecule to a cell expressing a
CC PRO polypeptide, modulate a biological activity of a cell, stimulate the
CC release of tumour necrosis factor (TNF)-alpha from human blood, modulate
CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit
CC the proliferation or differentiation of cells or gene expression,
CC stimulate the release of proteoglycans, stimulate the release of cytokine
CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide
CC to factor VIIa, or detect the presence of tumour in a mammal. The nucleic
CC acid and polypeptide encoded by it, are useful for treating inflammatory
CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,
CC birth defects, premature aging, acquired immunodeficiency syndrome
CC (AIDS), cancer, or diabetic complications. The nucleic acid is useful as
CC hybridisation probes, in chromosome and gene mapping, and in generating
CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
CC This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
XX
SQ Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 6; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLFLVTAIHAELCOPGAENAFKVLSTRTALGDKAYADWTVEYLFKAWAFSMRK 60
DB 1 MLWLLFLVTAIHAELCOPGAENAFKVLSTRTALGDKAYADWTVEYLFKAWAFSMRK 60

QY 61 VFNREATEISHVLLCNVTQVSFNVVTDPSKNHTLPAVEQSAIRMKNRINNAPFLND 120
DB 61 VFNREATEISHVLLCNVTQVSFNVVTDPSKNHTLPAVEQSAIRMKNRINNAPFLND 120

QY 121 QTLFELKIPSTLAPPMDSVPFIWIIIFGVIFCIITVAIALLLSGIWQRRKNKEPSEVD 180
DB 121 QTLFELKIPSTLAPPMDSVPFIWIIIFGVIFCIITVAIALLLSGIWQRRKNKEPSEVD 180

QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212
DB 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212

RESULT 10
ABU60598
ID ABU60598 standard; protein; 212 AA.
XX
AC ABU60598;
XX
DT 01-MAY-2003 (first entry)
XX
XX Human secreted/transmembrane protein, #157.
DE Human; PRO; secreted, transmembrane; signal peptide; pharmaceutical;
XX diagnostic; therapeutic; gene therapy.
XX Human sapiens.
XX OS
XX US2002160384-A1.

XX 31-OCT-2002.
XX 14-NOV-2001; 2001US-0092598.
XX 16-JUN-1997; 97US-0049787P.
XX 17-OCT-1997; 97US-0062250P.
XX 05-NOV-1997; 97WO-US020069.
XX 12-NOV-1997; 97US-0065186P.
XX 13-NOV-1997; 97US-0065311P.
XX 24-NOV-1997; 97US-0066770P.
XX 25-FEB-1998; 98US-0075945P.
XX 20-MAR-1998; 98US-0078910P.
XX 28-APR-1998; 98US-0083322P.
XX 07-MAY-1998; 98US-0084600P.
XX 28-MAY-1998; 98US-0087106P.
XX 02-JUN-1998; 98US-0087607P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
XX 03-JUN-1998; 98US-0087827P.
XX 04-JUN-1998; 98US-0088021P.
XX 04-JUN-1998; 98US-0088025P.
XX 04-JUN-1998; 98US-0088026P.
XX 04-JUN-1998; 98US-0088028P.
XX 04-JUN-1998; 98US-0088029P.
XX 04-JUN-1998; 98US-0088030P.
XX 04-JUN-1998; 98US-0088033P.
XX 04-JUN-1998; 98US-0088326P.
XX 05-JUN-1998; 98US-0088167P.
XX 05-JUN-1998; 98US-0088202P.
XX 05-JUN-1998; 98US-0088212P.
XX 09-JUN-1998; 98US-0088217P.
XX 10-JUN-1998; 98US-0088655P.
XX 10-JUN-1998; 98US-0088734P.
XX 10-JUN-1998; 98US-0088738P.
XX 10-JUN-1998; 98US-0088742P.
XX 10-JUN-1998; 98US-0088810P.
XX 10-JUN-1998; 98US-0088824P.
XX 10-JUN-1998; 98US-0088826P.
XX 11-JUN-1998; 98US-0088858P.
XX 11-JUN-1998; 98US-0088861P.
XX 11-JUN-1998; 98US-0088876P.
XX 12-JUN-1998; 98US-0089105P.
XX 16-JUN-1998; 98US-0089440P.
XX 16-JUN-1998; 98US-0089512P.
XX 16-JUN-1998; 98US-0089513P.
XX 17-JUN-1998; 98US-0089532P.
XX 17-JUN-1998; 98US-0089538P.
XX 17-JUN-1998; 98US-0089598P.
XX 17-JUN-1998; 98US-0089599P.
XX 17-JUN-1998; 98US-0089600P.
XX 17-JUN-1998; 98US-0089653P.
XX 18-JUN-1998; 98US-0089801P.
XX 18-JUN-1998; 98US-0089907P.
XX 18-JUN-1998; 98US-0089908P.
XX 16-SEP-1998; 98WO-US019330.
XX 17-SEP-1998; 98WO-US019437.
XX 07-OCT-1998; 98WO-US021141.
XX 01-DEC-1998; 98WO-US025108.
XX 05-JAN-1999; 99WO-US000108.
XX 08-MAR-1999; 99WO-US005028.
XX 02-JUN-1999; 99WO-US012252.
XX 15-SEP-1999; 99WO-US021090.
XX 15-SEP-1999; 99WO-US021547.
XX 30-NOV-1999; 99WO-US028313.
XX 01-DEC-1999; 99WO-US028301.
XX 01-DEC-1999; 99WO-US028634.
XX 16-DEC-1999; 99WO-US030095.
XX 20-DEC-1999; 99WO-US030911.
XX 05-JAN-2000; 2000WO-US000219.
XX 06-JAN-2000; 2000WO-US000376.
XX 11-FEB-2000; 2000WO-US003565.
XX 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX (GETH) GENENTECH INC.
XX Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL;
XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
XX Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
XX Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
XX Zhang Z;
XX WPI: 2003-288106/28.
XX N-PSDB; ABX90348.
PT New transmembrane polypeptides and nucleic acids encoding the
PT polypeptides, useful in gene therapy, in chromosome identification, as
PT chromosome markers, or in generating probes.
XX Claim 12; Fig 278; 650pp; English.
XX The invention discloses isolated PRO secreted/transmembrane polypeptides
XX comprising a sequence without signal peptide and the nucleic acid
XX encoding them. The polypeptides can be used to raise antibodies that
XX specifically bind to the PRO polypeptide, for linking a bioactive
XX molecule to a cell expressing a PRO protein and for modulating at least
XX one biological activity of a cell. The PRO polypeptides or
XX polynucleotides are also useful in gene therapy, in chromosome
XX identification, as chromosome markers, or in generating probes. The PRO
XX polypeptides are useful as molecular markers for protein electrophoresis,
XX and the isolated nucleic acids may be used for recombinantly expressing
XX those markers. The PRO polypeptides and nucleic acids may also be used in
XX tissue typing. Anti-PRO antibodies are useful in diagnostic assays for
XX PRO, and in affinity purification of PRO from recombinant cell culture or
XX natural sources. The sequences presented in ABU60478-ABU60624 are the PRO
XX polynucleotides of the invention. Note: The sequence data for this patent
XX is also available in electronic format from USPTO at
XX seqdata.uspto.gov/sequence.html
XX Sequence 212 AA;
Query Match 100.0%; Score 1102; DB 6; Length 212;
Best Local Similarity 100.0%; Pred. No. 5,8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLWLLFFLVTAIHAELCQPGAENAFKVRLSINTALGDKAYADTNEEYLFKAVAFSMRK 60
DB 1 MLWLLFFLVTAIHAELCQPGAENAFKVRLSINTALGDKAYADTNEEYLFKAVAFSMRK 60
QY 61 VFNREATHISVLLCNVTORVSPFWVTDPSPKNTLPAVEVQSAIMNKNRINNAFFLND 120
18-FEB-2000; 2000WO-US004341.

Db 61 VNRREATEISHVLLCNVTORVSFWFVVTDPKSNHTLPAVEQSAIMNKNRINNAPFLND 120
QY 121 QLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLISGIWQRRKNKEPSEVD 180
Db 121 QLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLISGIWQRRKNKEPSEVD 180
QY 181 DAEDKCNMTTENGIPSDPLDMKGGILAMPS 212
Db 181 DAEDKCNMTTENGIPSDPLDMKGGILAMPS 212
RESULT 11
ABU13980
ID ABU13980 standard; protein; 212 AA.
XX
AC ABU13980;
DT 26-FEB-2003 (first entry)
XX Human PRO1312 polypeptide.
DE
XX Human; PRO polypeptide; secreted protein; transmembrane protein;
KW genetic disorder; antibacterial; immunosuppressive.
KW
XX Homo sapiens.
OS
XX US2002103125-A1.
PN
XX 01-AUG-2002.
PD
XX
PF 20-NOV-2001; 2001US-00989731.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.

PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US000376.
PR 18-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US007377.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
XX (GETH) GENENTECH LTD.

PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NP;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX WPI; 2003-102117/09.
DR N-PSDB; ABX64194.
DR
XX Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers.
XX
PS Claim 12; Fig 278; 649pp; English.
XX
CC The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO

polypeptides are useful for detecting other PRO polypeptides, for linking bioactive molecules to cells expressing PRO polypeptides, for modulating biological activities of cells expressing PRO polypeptides, and for identifying agonists or antagonists. The polynucleotide sequences encoding PRO polypeptides are useful as hybridisation probes in chromosome and gene mapping, in the generation of antisense RNA and DNA, in the preparation of PRO polypeptides, for generating transgenic animals or knockout animals, to construct hybridisation probes for mapping the gene which encodes the PRO polypeptide, and for the genetic analysis of individuals with genetic disorders, in gene therapy, for chromosome identification, as chromosome markers, and for generating probes for PCR, Northern analysis, Southern analysis and Western analysis. ABU13860-ABU14006 represent the human PRO polypeptides of the invention. Note: The sequence data for this patent was obtained in electronic format directly from the USPTO web site at seqdata.uspto.gov/psipSIDEntry.html

SQ Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 6; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLFLVTAHAEICQGAENAFKRLSIRLTALGDKAYAMDTNEEYLFKAWAFSMRK 60
Db 1 MLWLFLVTAHAEICQGAENAFKRLSIRLTALGDKAYAMDTNEEYLFKAWAFSMRK 60

QY 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKSNHNTLPAVEQSAIRMNKNRINNAFFLND 120
Db 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKSNHNTLPAVEQSAIRMNKNRINNAFFLND 120

QY 121 QLEFLKIPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLILSGIWMRRRKNKEPSEVD 180
Db 121 QLEFLKIPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLILSGIWMRRRKNKEPSEVD 180

QY 181 DAEDKCNMTITENGIPSDPLMKGGILMMP 212
Db 181 DAEDKCNMTITENGIPSDPLMKGGILMMP 212

RESULT 12

ABU81110

ID ABU81110 standard; protein; 212 AA.

XX AC ABU81110;

XX DT 23-JUN-2003 (first entry)

XX DE Human PRO polypeptide #241.

XX KW Human; PRO polypeptide; secreted and transmembrane protein;
KW anti-PRO antibody; diagnostic assay; gene expression; diabetes;
KW bone disorder; cartilage disorder; rheumatoid arthritis; obesity;
KW sports injury; osteoarthritis; hyper-insulinaemia; hypo-insulinaemia;
KW hearing loss; coagulation disorder; stroke; heart attack; cardiac;
KW antidiabetic; anorectic; vulnerable; antihypertensive; osteopathic;
KW antirheumatic; auditory; cerebroprotective; angiogenic.

XX OS Homo sapiens.

XX PN US2003004311-A1.

XX PD 02-JAN-2003.

XX PF 19-DEC-2001; 2001US-00028072.

XX PR 18-JUN-1997; 97US-004911P.

XX PR 26-AUG-1997; 97US-0056374P.

XX PR 17-SEP-1997; 97US-0059113P.

XX PR 17-SEP-1997; 97US-0059115P.

XX PR 17-SEP-1997; 97US-0059117P.

XX PR 17-SEP-1997; 97US-0059122P.

XX PR 17-SEP-1997; 97US-0059184P.

XX PR 18-SEP-1997; 97US-0059263P.

PR 19-SEP-1997; 97US-0059352P.
PR 19-SEP-1997; 97US-0059588P.
PR 24-SEP-1997; 97US-0059836P.
PR 17-OCT-1997; 97US-0062250P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 17-OCT-1997; 97US-0063755P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063082P.
PR 24-OCT-1997; 97US-0063127P.
PR 27-OCT-1997; 97US-0063327P.
PR 28-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063561P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063733P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 11-DEC-1997; 97US-0069212P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 16-DEC-1997; 97US-0069694P.
PR 23-JAN-1998; 98US-0072320P.
PR 04-FEB-1998; 98US-0073612P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 12-MAR-1998; 98US-0077791P.
PR 20-MAR-1998; 98US-0078910P.
PR 25-MAR-1998; 98US-0079294P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079728P.
PR 31-MAR-1998; 98US-0080165P.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 10-SEP-1998; 98WO-US018824.
PR 28-AUG-1998; 98WO-US017888.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005021.
PR 10-MAR-1999; 99WO-US005191.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010731.
PR 02-JUN-1999; 99WO-US012251.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021091.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.

```
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028554.
PR 02-DEC-1999; 99WO-US028555.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031243.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 11-FEB-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
XX
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
XX Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-352836/33.
XX N-PSDB; ACA67234.
XX
XX New isolated PRO polypeptide useful for treating diabetes, rheumatoid
XX arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or
XX heart attack.
XX
XX Claim 12; Fig 482; 643pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
XX polypeptides, and the polynucleotide sequences encoding them. The PRO
XX polypeptides are secreted and transmembrane proteins. The PRO
XX polypeptides and polynucleotides are useful for preparing a medicament
XX useful in the treatment of diabetes, bone and/or cartilage disorders
XX (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity,
XX hyper- or hypo-insulinemia, hearing loss, and coagulation disorders
XX (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic
XX assays for PRO, by detecting its expression in specific cells, tissues or
XX serum, and for affinity purification of PRO from recombinant cell culture
XX or natural sources. AB080870-AB081144 represent the human PRO
XX polypeptides of the invention. Note: The sequence data for this patent
XX was obtained in electronic format directly from the USPTO web site at
XX seqdata.uspto.gov/psipdbEntry.html
XX
XX Sequence 212 AA;
XX
XX Query Match 100.0%; Score 1102; DB 6; Length 212;
XX Best Local Similarity 100.0%; Pred. No. 5.9e-114;
XX Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX Qy 1 MLWLFFLVTAIHAELQCPGAEAPFKVRLSIRLTALGDKAYAWDTNNEEYLFKAMVAFSRK 60
XX Db 1 MLWLFFLVTAIHAELQCPGAEAPFKVRLSIRLTALGDKAYAWDTNNEEYLFKAMVAFSRK 60
XX
XX Qy 61 VPNEATEISHVLLCNVTQRYSPFVVTDPSPKNHTLPAAVEVQSAIRMNKNRINNAPFLND 120
XX Db 61 VPNEATEISHVLLCNVTQRYSPFVVTDPSPKNHTLPAAVEVQSAIRMNKNRINNAPFLND 120
XX
XX Qy 121 QTLFELKIPSTLAPMDPSVPIWIIIFGVICIIIVAIALLISGIWRRRKNKEPSVD 180
XX Db 121 QTLFELKIPSTLAPMDPSVPIWIIIFGVICIIIVAIALLISGIWRRRKNKEPSVD 180
XX
XX Qy 181 DAEDKCNMTIENGIPSDPLDMKGILLMPS 212
XX Db 181 DAEDKCNMTIENGIPSDPLDMKGILLMPS 212
```

RESULT 13
ABU72565
ID ABU72565 standard; protein; 212 AA.
XX
AC ABU72565;
XX
DT 17-JUN-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO1312.
XX
KW Human; secreted and transmembrane protein; cytostatic; anti-HIV;
KW virucide; hepatotropic; antiinflammatory; neuroprotective; gene therapy;
KW PRO; pharmaceutical; diagnostic; biosensor; bioresor; malignancy;
KW cancer; ovarian cancer; colorectal cancer; Kaposi's sarcoma; leukaemia;
KW lymphoma; hepatitis B; multiple sclerosis; Crohn's disease;
KW drug screening.
XX
OS Homo sapiens.
XX
FN US2003003531-A1.
XX
PD 02-JAN-2003.
XX
PF 19-NOV-2001; 2001US-00989734.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087108P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.

PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 98WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US0003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 09-JUL-2001; 2001WO-US021056.
 PR 28-AUG-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WT;
 PI Zhang Z;
 XX
 DR WPI, 2003-352829/33.
 DR N-P5DB; ACA64416.
 XX
 PT New genes and secreted and transmembrane polypeptides (e.g. PRO183 or
 PT PRO184), useful for treating or diagnosing e.g. ovarian cancer, Kaposi's
 PT sarcoma, leukemia, lymphoma, hepatitis B, multiple sclerosis or Crohn's
 PT disease.
 XX
 PS Claim 12; Fig 278; 663pp; English.
 XX
 CC The invention describes a new isolated nucleic acid molecule comprising
 CC the full length coding sequence of the DNA deposited with the American
 CC Type Culture Collection (e.g. ATCC Deposit No. 209621, 552-PTA, 819-PTA,
 CC 209439, 20135, etc); or a sequence with at least 80% identity to a DNA
 CC encoding a PRO polypeptide. The PRO polypeptides or polynucleotides are
 CC useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These
 CC are particularly useful for detecting or treating e.g. malignancies or
 CC cancers (e.g. ovarian cancer, colorectal cancer, Kaposi's sarcoma,
 CC leukaemia or lymphoma), hepatitis B, multiple sclerosis, or Crohn's

CC disease in mammals. The PRO polypeptides are useful in drug screening,
 CC particularly as targets for therapeutic intervention in these diseases,
 CC and in the diagnostic determination of the presence of these diseases.
 CC The PRO polypeptides are also useful as molecular weight markers, or for
 CC chromosome identification. The PRO genes are useful as hybridisation
 CC probes, or for screening libraries of human cDNA, genomic DNA or mRNA.
 CC The PRO genes may also be used in gene therapy, particularly of a novel
 CC replacing a defective gene. This is the amino acid sequence of a novel
 CC human secreted and transmembrane PRO polypeptide
 XX
 SQ Sequence 212 AA;
 Query Match 100.0%; Score 1102; DB 6; Length 212;
 Best Local Similarity 100.0%; Pred. No. 5.8e-114;
 Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MLWLLFLVLTALHAEIQCQGAENAFKVLSTRTALGDKAYAWDTNEEYLFKAWAFSMRK 60
 DB 1 MLWLLFLVLTALHAEIQCQGAENAFKVLSTRTALGDKAYAWDTNEEYLFKAWAFSMRK 60
 QY 61 VFNREATEISHVLLCNVTVQVSFWFVVTDPSPKNTLPAVEVQSARIMNKNRINNAFLND 120
 DB 61 VFNREATEISHVLLCNVTVQVSFWFVVTDPSPKNTLPAVEVQSARIMNKNRINNAFLND 120
 QY 121 QTLEFLKIPSTLAPPMPSPVPIWIIIFGVIFCIIIVATALLILSGIWMQRKKKESEVD 180
 DB 121 QTLEFLKIPSTLAPPMPSPVPIWIIIFGVIFCIIIVATALLILSGIWMQRKKKESEVD 180
 QY 181 DAEDKCNMTTENGIPSDPLDMKGILMMP 212
 DB 181 DAEDKCNMTTENGIPSDPLDMKGILMMP 212
 RESULT 14
 ABU66810
 ID ABU66810 standard; protein; 212 AA.
 XX AC ABU66810;
 XX DT 23-MAY-2003 (first entry)
 XX DE Human PRO polypeptide #241.
 XX KW Human; PRO polypeptide; secreted and transmembrane protein;
 KW tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;
 KW differentiation; chondrocyte; tumour; genetic disorder; cytostatic.
 XX OS Homo sapiens.
 XX PN US2003036180-A1.
 XX PD 20-FEB-2003.
 XX PF 09-MAY-2002; 2002US-00143114.
 XX PR 31-MAR-1997; 97WO-US005230.
 PR 12-JUN-1998; 98WO-US012456.
 PR 14-JUL-1998; 98WO-US014552.
 PR 28-AUG-1998; 98WO-US017888.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019093.
 PR 14-SEP-1998; 98WO-US019094.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 29-OCT-1998; 98WO-US022991.
 PR 29-OCT-1998; 98WO-US022992.
 PR 20-NOV-1998; 98WO-US024855.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 10-MAR-1999; 99WO-US005190.

```
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US021252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 05-JAN-2000; 99WO-US031274.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 11-FEB-2000; 2000WO-US000376.
PR 18-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 01-MAR-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005811.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 20-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00806689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.

PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX (GETH ) GENENTECH INC.
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Pilvaroff E, Gao W;
XX Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-332040/31.
XX N-PSDB; ACA03843.
XX New secreted and transmembrane PRO nucleic acids, useful for gene
XX therapy, in chromosome and gene mapping, as chromosome markers, in tissue
XX typing, and in chromosome identification.
XX Claim 12; Fig 482; 660pp; English.
XX The present invention relates to the isolation of novel human PRO
XX polypeptides, and the polynucleotide sequences encoding them. The PRO
XX polypeptides are secreted and transmembrane proteins. The PRO
XX polypeptides are useful for detecting other PRO polypeptides, for linking
XX bioactive molecules to cells expressing PRO polypeptides, and for
XX biological activities of cells expressing PRO polypeptides, and for
XX identifying agonists or antagonists. The PRO polypeptides are useful for
XX stimulating the release of tumour necrosis factor (TNF)-alpha from
XX human blood, for stimulating the proliferation or differentiation of
XX chondrocytes, and detecting the presence of tumours. The polynucleotide
XX sequences encoding PRO polypeptides are useful as hybridisation probes,
XX in chromosome and gene mapping, in the generation of antisense RNA and
XX DNA, in the preparation of PRO polypeptides, for generating transgenic
XX animals or knockout animals, for the genetic analysis of individuals with
XX genetic disorders, and in gene therapy. ABU6570-ABU66844 represent the
XX human PRO polypeptides of the invention. Note: The sequence data for this
XX patent was obtained in electronic format directly from the USPTO web site
XX at seqdata.uspto.gov/paipdIDEntry.html
XX SQ Sequence 212 AA;
Query Match 100.0%; Score 1102; DB 6; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MLWLLPFLVTAHAEHCQPGAEAFKVRLSIRLTALGDKAYADWTNEEYLFKAWAFSMRK 60
Db 1 MLWLLPFLVTAHAEHCQPGAEAFKVRLSIRLTALGDKAYADWTNEEYLFKAWAFSMRK 60
Qy 61 VPAREATEISHVLLCNVTQVSFPVVTDPKSNHTLPAVEVQSARIMKNRINNAPFLND 120
Db 61 VPAREATEISHVLLCNVTQVSFPVVTDPKSNHTLPAVEVQSARIMKNRINNAPFLND 120
Qy 121 QTLEFLKIPSTLAPPDPSVPFIWIIIFGVICIIIVALLILSGIWORRRKNKPSFVD 180
Db 121 QTLEFLKIPSTLAPPDPSVPFIWIIIFGVICIIIVALLILSGIWORRRKNKPSFVD 180
Qy 181 DAEDKCNMTIENGIPSDPLDMKGGLMMPFS 212
Db 181 DAEDKCNMTIENGIPSDPLDMKGGLMMPFS 212
RESULT 15
ABU59891
ID ABU59891 standard; protein; 212 AA.
XX ABU59891;
XX AC ABU59891;
XX DT 13-MAY-2003 (first entry)
```

XX Novel secreted and transmembrane protein PRO1312.
DE Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
XX Homo sapiens.
XX US2003017563-A1.
XX 23-JAN-2003.
XX 07-MAY-2002; 2002US-00140808.
PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US0003565.
PR 18-FEB-2000; 2000WO-US0004341.
PR 18-FEB-2000; 2000WO-US0004342.
PR 22-FEB-2000; 2000WO-US0004414.
PR 24-FEB-2000; 2000WO-US0004914.
PR 01-MAR-2000; 2000WO-US0005004.
PR 01-MAR-2000; 2000WO-US0005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00806689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX (GETH) GENENTECH INC.
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-148238/14.
DR N-PSDB; ARX89381.
XX Two hundred and seventy five nucleic acids encoding PRO polypeptides,
PT useful for treating pericyte-associated tumors, diabetes and various bone
PT and/or cartilage disorders, e.g. arthritis.
XX Claim 12; Fig 482; 659pp; English.
XX The invention describes an isolated human PRO polypeptide. The PRO
CC polypeptides are useful in detecting PRO polypeptides in a sample, in
CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
CC in modulating at least one biological activity of a cell expressing a PRO
CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
CC

CC useful for treating conditions or disorders where angiogenesis would be
CC beneficial, e.g. wound healing and antagonist of this polypeptide are
CC useful for treating cancerous tumours. PRO812 inhibits vascular
CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC cells and is thus useful for inhibiting endothelial cell growth in
CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO826, PRO1068 or PRO1375 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
CC and PRO1066 induce proliferation of mamalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpetiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and are
CC thus useful for treating sports injuries, and arthritis. This is the
CC amino acid sequence of a novel human PRO protein
XX
SQ Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 6; Length 212;
Best Local Similarity 100.0%; Pred. No. 5.8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MLWLLFLVTAIHAELCPGAEAPKVRLSIRLTALGDKAYAWDTNERYLFKAMVAFSMRK 60
Db 1 MLWLLFLVTAIHAELCPGAEAPKVRLSIRLTALGDKAYAWDTNERYLFKAMVAFSMRK 60
Qy 61 VPNEATEISHVLLCNVTQVSPFVVTDPSPKNTLPAVEVQSAIRMNKRINNAPFLND 120
Db 61 VPNEATEISHVLLCNVTQVSPFVVTDPSPKNTLPAVEVQSAIRMNKRINNAPFLND 120
Qy 121 QTFLEFLKIPSTLAPMPDPSVPIWIIICGVIFCIIIVAIALLISGIWQRKKKEPSEVD 180
Db 121 QTFLEFLKIPSTLAPMPDPSVPIWIIICGVIFCIIIVAIALLISGIWQRKKKEPSEVD 180
Qy 181 DAEDKCNMTIENGIPSDPLDMKGGIIMPS 212
Db 181 DAEDKCNMTIENGIPSDPLDMKGGIIMPS 212

Search completed: March 31, 2004, 12:05:16
Job time : 62 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 31, 2004, 12:04:05 ; Search time 23 Seconds
(without alignments)
475.857 Million cell updates/sec

Title: US-09-989-724-387

Perfect score: 1102

Sequence: 1 MLMLLPFLVTAIHAELOCPG.....ENGIPSDPLDMKGGILMMP 212

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*

- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.psp.*
- 2: /cgn2_6/ptodata/2/iaa/5B_COMB.psp.*
- 3: /cgn2_6/ptodata/2/iaa/6A_COMB.psp.*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.psp.*
- 5: /cgn2_6/ptodata/2/iaa/PTCUS_COMB.psp.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles.psp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	376	34.1	805	3	US-08-989-299-2
2	376	34.1	805	4	US-10-158-847-142
3	376	34.1	805	4	US-09-407-427-2
4	359	32.6	711	4	US-10-158-847-138
5	289	26.2	681	4	US-10-158-847-140
6	90	8.2	799	1	US-08-188-228-42
7	90	8.2	799	1	US-08-332-638-42
8	89.5	8.1	793	1	US-08-188-228-54
9	89.5	8.1	793	1	US-08-332-643-48
10	89.5	8.1	793	1	US-08-332-638-54
11	88	8.0	363	1	US-07-946-497-7
12	88	8.0	363	1	US-08-483-322-7
13	88	8.0	363	2	US-08-478-882-7
14	86	7.8	503	1	US-07-946-497-2
15	86	7.8	503	1	US-08-483-322-2
16	86	7.8	503	2	US-08-478-882-2
17	84.5	7.7	339	2	US-08-892-880-3
18	83.5	7.6	1337	3	US-08-854-585-2
19	83.5	7.6	1337	4	US-09-447-533-2
20	83.5	7.6	1337	5	PCT-US95-05512-2
21	82.5	7.5	529	4	US-09-134-000C-5948
22	78.5	7.1	438	4	US-09-404-879A-390
23	78.5	7.1	833	4	US-09-404-879A-389
24	78.5	7.1	914	4	US-09-404-879A-312
25	78.5	7.1	914	4	US-09-338-933-312
26	75.5	6.9	944	4	US-09-107-532A-4864
27	75.5	6.9	2035	2	US-08-479-537A-2

28	75.5	6.9	2035	3	US-09-083-116-2	Sequence 2, Appli
29	75.5	6.9	2035	4	US-09-134-916A-2	Sequence 2, Appli
30	75	6.8	1260	3	US-09-245-041-2	Sequence 2, Appli
31	73.5	6.7	298	1	US-08-118-270-76	Sequence 76, Appli
32	73.5	6.7	298	5	PCT-US93-08528-76	Sequence 76, Appli
33	73.5	6.7	562	4	US-09-489-039A-8574	Sequence 8574, Ap
34	73.5	6.7	796	2	US-08-738-349-2	Sequence 2, Appli
35	73	6.6	14	3	US-08-905-223-28	Sequence 28, Appli
36	73	6.6	14	4	US-09-247-155-28	Sequence 28, Appli
37	73	6.6	14	4	US-09-663-600A-28	Sequence 28, Appli
38	73	6.6	14	4	US-09-621-976-6	Sequence 6, Appli
39	73	6.6	195	4	US-09-543-681A-7985	Sequence 7985, Ap
40	72.5	6.6	299	4	US-09-651-200-15	Sequence 15, Appli
41	72	6.5	283	2	US-08-332-562A-136	Sequence 136, Ap
42	72	6.5	510	4	US-09-540-236-2148	Sequence 2148, Ap
43	71.5	6.5	796	1	US-08-188-228-58	Sequence 58, Appli
44	71.5	6.5	796	1	US-08-332-643-52	Sequence 52, Appli
45	71.5	6.5	796	1	US-08-332-638-58	Sequence 58, Appli

ALIGNMENTS

RESULT 1

US-08-989-299-2

; Sequence 2, Application US/08989299

; Patent No. 6194556

; GENERAL INFORMATION:

; APPLICANT: Acton, Susan L.

; APPLICANT: Robinson, Keith B.

; TITLE OF INVENTION: ANGIOTENSIN CONVERTING ENZYME HOMOLOG

; TITLE OF INVENTION: AND THERAPEUTIC AND DIAGNOSTIC USES THEREFOR

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: FOLEY, HOAG & ELIOT LLP

; STREET: One Post Office Square

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02109-2170

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/989,299

; FILING DATE: 11-DEC-1997

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Arnold B., Beth

; REGISTRATION NUMBER: 35,430

; REFERENCE/DOCKET NUMBER: MIA-025.01

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-832-1000

; TELEFAX: 617-832-7000

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 805 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-989-299-2

Query Match 34.1%; Score 376; DB 3; Length 805;

Best Local Similarity 47.9%; Pred. No. 1.4e-34;

Matches 79; Conservative 32; Mismatches 48; Indels 6; Gaps 3;

Qy 19 PGAEAFKVLISITAGDKAYANDTNEEYLKPAWAFESMR----KVPNREAT-EISHVL 73

Db 612 PYAQDSIKVRLSKLGDKAYENDNEMYLFRSSAYKMYQYFLUKVKNQMLFGREDVR 671

Qy 74 LCNVTQVSEFWFVVTDPSEK-NHTLPVEVQSAIRNKNRINNAFFLNDQTLFLKIPSTL 132

DB	672	VANLXPRISNFVFYAPKQVSDIIPTREVEKAIMSRINDAFRLNDSLEFLGIQPTL	731
QY	133	APPMDSPVPIWIIIFGVFCIIIVAIALLISGIVQRRKKKQPS	177
DB	732	GPPNPPYSIWLIVFGVVMGIVGVILVIFGTGIRDRKKENKARS	776

```

RESULT 2
US-10-158-847-142
; Sequence 142, Application US/10158847
; Patent No. 6592865
; GENERAL INFORMATION:
; APPLICANT: Tom Parry et al.
; TITLE OP INVENTION: Method and Compositions for Modulating ACE-2 Activity
; FILE REFERENCE: PF557
; CURRENT APPLICATION NUMBER: US/10/158,847
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: 60/295,004
; PRIOR FILING DATE: 2001-06-04
; NUMBER OF SEQ ID NOS: 158
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 142
; LENGTH: 805
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-158-847-142

```

Query Match	34.1%	Score 376;	DB 4;	Length 805;
Best Local Similarity	47.9%;	Pred. No. 1.4e-34;		
Matches	79;	Conservative 32;	Mismatches 48;	Indels 6; Gaps 3

Oy	19	PCGAENAFKVLRLSIIETALGDKAYADWTNEEYLPKAMVAFSMR-----KVPNREAT-EISHVL	73
Ddb	612	PYADOSIKVRISLSALSAGDKAYBNDWNBMLPRSSVAYAMQVFLKVKNOMILFGREDVR	671
Oy	74	LCNVTRQVSFWFVTDPSEK-NHTELPAYEVQSARIMNKGRINNAFFINDOTLBLEFKIPSTL	132
Ddb	672	VANLKPRLSFNFFFTAPQWSDIIPRTVEVKATEMSRSRLINDAFLRDNLSLEFLGIQPTL	731
Oy	133	APPMDPSVPITIIIFGVIFCIIVAIALLIILSGIWORRRRNKEPS	177
Dd	732	GPPNOPPYSITLVLFVGVMGVIVGIVILIFTGIRUKKKNNKARS	776

RESULT 3
US-09-407-427-2
; Sequence 2, Application US/09407427
; Patent No. 6610497
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan L.
; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: ANGTENSTIN CONVERTING ENZYME HOMOLOG AND THERAPEUTIC
; TITLE OF INVENTION: AND DIAGNOSTIC USES THEREFOR
; FILE REFERENCE: MMI-132CP2
; CURRENT APPLICATION NUMBER: US/09/407,427
; CURRENT FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 09/163,648
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: 08/989,299
; PRIOR FILING DATE: 1997-12-11
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 805
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-407-427-2

[illegible]

```

RESULT 4
US-10-158-847-138
; Sequence 138, Application US/10158847
; Patent No. 6592865
; GENERAL INFORMATION:
; APPLICANT: Tom Party et al.
; TITLE OP INVENTION: Method and Compositions for Modulating ACB-2 Activity
; FILE REFERENCE: PF57
; CURRENT APPLICATION NUMBER: US/10/158,847
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: 60/295,004
; PRIOR FILING DATE: 2001-06-04
; NUMBER OF SEQ ID NOS: 158
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 138
; LENGTH: 711
; TYPE: PRT
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (219)..(219)
; OTHER INFORMATION: Xaa equals any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (240)..(240)
; OTHER INFORMATION: Xaa equals any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (499)..(499)
; OTHER INFORMATION: Xaa equals any amino acid
; US-10-158-847-138

```

```

RESULT 5
US-10-158-847-140
; Sequence 140, Application US/10158847
; Patent No. 6592865
;
; GENERAL INFORMATION:
; APPLICANT: Tom Parry et al.
; TITLE OF INVENTION: Method and Compositions for Modulating ACE-2 Activity
; FILE REFERENCE: PF557
; CURRENT APPLICATION NUMBER: US/10/158,847
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: 60/295,004
;

```

```

: PRIOR FILING DATE: 2001-06-04
: NUMBER OF SEQ.ID NOS: 158
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 140
: LENGTH: 681
: TYPE: PRT
: ORGANISM: homo sapiens
: FEATURE:
: NAME/KEY: MISC FEATURE
: LOCATION: [219]..(219)
: OTHER INFORMATION: Xaa equals
: FEATURE:
: NAME/KEY: MISC FEATURE
: LOCATION: [240]..(240)
: OTHER INFORMATION: Xaa equals
: FEATURE:
: NAME/KEY: MISC FEATURE
: LOCATION: [499]..(499)
: OTHER INFORMATION: Xaa equals
: US-10-158-847-140

```

Query Match		26.2%	Score 289;	DB 4;	Length 681;	
Best Local Similarity		48.1%;	Pred. No. 1.4e-24;			
Matches	63;	Conservative	23;	Mismatches	39;	Gaps 3;
QY	19	PGAEAFKVKRLSRTRALGDKAYAWDNYEVLPMAYAPSMR----	KVPNREAT-EISHVL	73		
		: : : : : : : : : : : : : : : :				
Ddb	551	PYADQSIRKRI SLKSALSGDKAYEWNNEMYLFESSVAYAMQYFLVKVMQLFGSEEDVR	610			
		: : : : : : : : : : : : : : : :				
QY	74	LGNVTQRVSFWFVVTDPSK-NHTLPAVEQSAIRMKNKRNINNAFFINDOTLEFLKIPSTL	132			
		: : : : : : : : : : : : : : : :				
Ddb	611	VANLKPRISFNFPVTA PKNVSDIIPTEVEKAIRMSRSRINDAFLRNDOSLEFLGIQPTL	670			
		: : : : : : : : : : : : : : : :				
QY	133	APPMDPSPVIW	143			
		: : : : : : : : : : : : : : : :				
Ddb	671	GPENPPVSIW	681			
		: : : : : : : : : : : : : : : :				

RESULT 6
US-08-188-228-42
; Sequence 42, Application US/08188228
; Patent No. 5597725
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: CADHERIN MATERIALS AND METHODS
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Borun
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/188,228
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/049,460
; FILING DATE: 19 APR 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/872,643
; FILING DATE: 17 APR 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 559772Sand, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31340

```

TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS
LENGTH: 799 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-188-228-42

```

```

Query Match      8.2%; Score 90; DB 1; Length 799;
Best Local Similarity 21.4%; Pred. No. 0.2;
Matches 52; Conservative 34; Mismatches 91; Indels 66; Gaps 11;

QY 13 HAEIQQPGAEAFKVRLSIRTALGDKAYAWDT-----NEEYLFKAMVAFPMKRVPN 63
DB 432 HYTLERQFNINADGGKITLATPLDRLSVYMHNISIIATEIRNHSQISRVFPAIKVLVDV-N 490
QY 64 REATIS---HVLIC-----NVTQRVSPFVVUTPDSKNH----TLPAVEVQSARIMNK 109
DB 491 DNAPEFASYEAFLECPGKPGQVIGTVSA-MDKDDPKNGHFYLSLLPEMNVNPNFTIKK 549
QY 110 NRINNAFFL-----NDOTLEPLKIPSTLA----PMDPSVPIIWIIFG-----148
DB 550 NEDNSLSILAKINGFNRQKQEVYLIPIVSDSGNPLSTSTLTITRVCGSNDGVVQSCN 609
QY 149 -----VIFCIIIIVAIALLSIGIWQRERRKNKBPSEVDDAEDKCNMIT 191
DB 610 VEAYVPIGLSGALIAILACIIILLAVIVLWF--VTLRRHK-N-EPLIINKDDEDVRENIIR 666
QY 192 IEN 194
DB 667 YDD 669

```

RESULT 7
US-08-332-638-42
; Sequence 42, Application US/08332638
; Patent No. 5646250
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: CACHERIN MATERIALS AND METHODS
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSER: Borun
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,638
; FILING DATE: 01-NOV-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/872,643
; FILING DATE: 17 APR 1992
; APPLICATION NUMBER: US/08/049,460
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5646250and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31340
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6300

TELEFAX: (312) 474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 799 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-332-638-42

Query Match 8.2%; Score 90; DB 1; Length 799;
Best Local Similarity 21.4%; Pred. No. 0.2;
Matches 52; Conservative 34; Mismatches 91; Indels 66; Gaps 11;
QY 13 HAEIQCPGAENAFKVRSLRTALGKAYAWDT-----NEEYLFKAMVAFSMRKVPN 63
DB 432 HTDLERQFNINADGKITLATPLDRELSVWHNIIATIRNHSQISRVFPAIKVLDV-N 490
QY 64 REATIS---HVLIC-----NVTQVSFWFVVTDPKSNH-----TLPAVEVQSAIRMNK 109
DB 491 DNAPFASFEYAFLECGKPGQVIQTVSA-MDKDDPKNGHFFLYSLLPEMVNPNFTIKK 549
QY 110 NRINNAFPL-----NDQTLFLKIPSTLA-----PPMDPSVPIWIIIFG----- 148
DB 550 NEDNLSILAKHNGFNROKQEVYLLPIVSDSGNPLSSTLTIRVCGCSNDGVVQSCN 609
QY 149 -----VFICIIIVAIALLILSGIWQRKKKEPSEVDDAEDKCNMIT 191
DB 610 VEAYVLPGLSMGALIAIACIILLVIVLFP--VTLRRHKN-EPLINDDEDVRENIIR 666
QY 192 IEN 194
DB 667 YDD 669

RESULT 8

US-08-188-228-54
Sequence 54, Application US/08188228
Patent No. 5597725
GENERAL INFORMATION:
APPLICANT: Suzuki, Shintaro
TITLE OF INVENTION: CADHERIN MATERIALS AND METHODS
NUMBER OF SEQUENCES: 62
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Borun
STREET: 6300 Sears Tower, 233 S. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/188,228
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/049,460
FILING DATE: 19 APR 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/872,643
FILING DATE: 17 APR 1992
ATTORNEY/AGENT INFORMATION:
NAME: No. 5597725and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 31340
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448

TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 793 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-188-228-54

Query Match 8.1%; Score 89.5; DB 1; Length 793;
Best Local Similarity 20.6%; Pred. No. 0.22;
Matches 50; Conservative 35; Mismatches 93; Indels 65; Gaps 10;
QY 13 HAEIQCPGAENAFKVRSLRTALGKAYAWDT-----NEEYLFKAMVAFSMRKVPN 63
DB 432 HTDLERQFNINADGKITLATPLDRELSVWHNIIATIRNHSQISRVFPAIKVLDV-N 483
QY 64 REATIS---HVLIC-----NVTQVSFWFVVTDPKSNH-----TLPAVEVQSAIRMNK 109
DB 484 DNAPFASFEYAFLECGKPGQVIQTVSA-MDKDDPKNGHFFLYSLLPEMVNPNFTIKK 542
QY 110 NRINNAFPL-----NDQTLFLKIPSTLA-----PPMDPSVPIWIIIFG----- 148
DB 543 NEDNLSILAKHNGFNROKQEVYLLPIVSDSGNPLSSTLTIRVCGCSNDGVVQSCN 602
QY 149 -----VFICIIIVAIALLILSGIWQRKKKEPSEVDDAEDKCNMIT 191
DB 603 VEAYVLPGLSMGALIAIACIILLVIVLFP--VTLRRHKN-EPLINDDEDVRENIIR 660
QY 192 IEN 194
DB 661 YDD 663

RESULT 9

US-08-332-643-48
Sequence 48, Application US/08332643
Patent No. 5639634
GENERAL INFORMATION:
APPLICANT: Suzuki, Shintaro
TITLE OF INVENTION: CADHERIN MATERIALS AND METHODS
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Bicknell
STREET: Two First National Plaza, 20 South Clark
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/332,643
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/872,643
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: No. 5639634and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 27866/30795
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 346-5750
TELEFAX: (312) 984-9740
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 48:
SEQUENCE CHARACTERISTICS:

LENGTH: 793 amino acids
TYPE: amino acid
MOLECULE TYPE: linear
US-08-332-638-48

Query Match 8.1%; Score 89.5; DB 1; Length 793;
Best Local Similarity 20.6%; Pred. No. 0.22;
Matches 50; Conservative 35; Mismatches 93; Indels 65; Gaps 10;

QY 13 HAEICQGAENAFKVRISIRLTALGDKAYAMDT-----NEEYLFKAWAFSMRKVPN 63
DB 425 HTDLERQFNADGGKITLATPLDRELSVHNITIIATIRNHSQISRVPVAIKVLDV-N 483
QY 64 REATEIS---HVLIC-----NVTQVSFWFVVTDPSPKNH-----TLPAVEVQSAIRMNK 109
DB 484 DNAPEPASEYEAFCEKNGKQGVITQVSA-MDKDDPKNGHYFLYSLPEWVNNPNFTIKK 542
QY 110 NRINNAFPL-----NDOTLEFLKIPSTLA-----PMDPSVPIWIIIFG----- 148
DB 543 NEDNSLSILAKHNGFNKQEVYLLPIIISDSGNPPLSSTLTIRVCGCSNDGVVQSCN 602
QY 149 -----VFICIIIVAIALLILSGIWORRRKKNKBPSEVDDAEDKCNMIT 191
DB 603 VEAYVLPILSGMGLIALIACIILLVIVLFF--VTLRRHQKNEPLIIKDDDEDVRENIIR 660
QY 192 IEN 194
DB 661 YDD 663

RESULT 10
US-08-332-638-54
Sequence 54, Application US/08332638
Patent No. 5646250
GENERAL INFORMATION:
APPLICANT: Suzuki, Shintaro
TITLE OF INVENTION: CADHERIN MATERIALS AND METHODS
NUMBER OF SEQUENCES: 62
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Borun
STREET: 3300 Sears Tower, 233 S. Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/332,638
FILING DATE: 01-NOV-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/872,643
FILING DATE: 17 APR 1992
APPLICATION NUMBER: US/08/049,460
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: No. 5646250and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 31340
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 793 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-332-638-54

Query Match 8.1%; Score 89.5; DB 1; Length 793;
Best Local Similarity 20.6%; Pred. No. 0.22;
Matches 50; Conservative 35; Mismatches 93; Indels 65; Gaps 10;

QY 13 HAEICQGAENAFKVRISIRLTALGDKAYAMDT-----NEEYLFKAWAFSMRKVPN 63
DB 425 HTDLERQFNADGGKITLATPLDRELSVHNITIIATIRNHSQISRVPVAIKVLDV-N 483
QY 64 REATEIS---HVLIC-----NVTQVSFWFVVTDPSPKNH-----TLPAVEVQSAIRMNK 109
DB 484 DNAPEPASEYEAFCEKNGKQGVITQVSA-MDKDDPKNGHYFLYSLPEWVNNPNFTIKK 542
QY 110 NRINNAFPL-----NDOTLEFLKIPSTLA-----PMDPSVPIWIIIFG----- 148
DB 543 NEDNSLSILAKHNGFNKQEVYLLPIIISDSGNPPLSSTLTIRVCGCSNDGVVQSCN 602
QY 149 -----VFICIIIVAIALLILSGIWORRRKKNKBPSEVDDAEDKCNMIT 191
DB 603 VEAYVLPILSGMGLIALIACIILLVIVLFF--VTLRRHQKNEPLIIKDDDEDVRENIIR 660
QY 192 IEN 194
DB 661 YDD 663

RESULT 11
US-07-946-497-7
Sequence 7, Application US/07946497
Patent No. 5506119
GENERAL INFORMATION:
APPLICANT: HERRLICH, Peter
APPLICANT: PONTA, Helmut
APPLICANT: GUENTHERT, Ursula
APPLICANT: MATZKU, Siegfried
APPLICANT: WENZL, Achim
TITLE OF INVENTION: VARIANT CD44 SURFACE PROTEINS, DNA
TITLE OF INVENTION: SEQUENCES CODING THESE ANTIBODIES AGAINST THESE PROTEINS,
TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington, D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/946,497
FILING DATE: 19921109
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 16915/145
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: MCD44

US-07-946-497-7

Query Match 8.0%; Score 88; DB 1; Length 363;
Best Local Similarity 21.6%; Pred. No. 0.11; Mismatches 23; Indels 30; Gaps 3;
Matches 24; Conservative 23; Mismatches 23; Indels 30; Gaps 3;
QY 128 IPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLLSGIWQRRR-----PLDMKGI 207
DB 256 VTTSGPMRPPQIPEWLLI---LASLLALAILAVCIANVSRRCQKKLVINGGNGTV 312
QY 172 KNKEPSEVDDADKCNMTIENGIPSD-----PLDMKGI 207
DB 313 EDRKPSLNGEASKQEMVHLVNKEPSETPDQCMTADETRNLSQVDMKIGV 363

RESULT 12

US-08-483-322-7
; Sequence 7, Application US/08483322
; Patent No. 5760178
; GENERAL INFORMATION:
; APPLICANT: HERRLICH, Peter
; APPLICANT: PONTA, Helmut
; APPLICANT: GUENTHERT, Ursula
; APPLICANT: MATZKU, Siegfried
; APPLICANT: WENZL, Achim
; TITLE OF INVENTION: VARIANT CD44 SURFACE PROTEINS, DNA
; TITLE OF INVENTION: SEQUENCES CODING THESE, ANTIBODIES AGAINST THESE PROTEINS,
; TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington, D.C.
; COUNTRY: USA
; ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/483,322
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/946,497
; FILING DATE: 03-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 16915/145
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:
; LENGTH: 363 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: mCD44

US-08-483-322-7

Query Match 8.0%; Score 88; DB 1; Length 363;
Best Local Similarity 21.6%; Pred. No. 0.11; Mismatches 23; Indels 30; Gaps 3;
Matches 24; Conservative 23; Mismatches 23; Indels 30; Gaps 3;
QY 128 IPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLLSGIWQRRR-----PLDMKGI 207
DB 256 VTTSGPMRPPQIPEWLLI---LASLLALAILAVCIANVSRRCQKKLVINGGNGTV 312
QY 172 KNKEPSEVDDADKCNMTIENGIPSD-----PLDMKGI 207

DB 313 EDRKPSLNGEASKQEMVHLVNKEPSETPDQCMTADETRNLSQVDMKIGV 363

RESULT 13

US-08-478-882-7
; Sequence 7, Application US/08478882
; Patent No. 5885575
; GENERAL INFORMATION:
; APPLICANT: HERRLICH, Peter
; APPLICANT: PONTA, Helmut
; APPLICANT: GUENTHERT, Ursula
; APPLICANT: MATZKU, Siegfried
; APPLICANT: WENZL, Achim
; TITLE OF INVENTION: VARIANT CD44 SURFACE PROTEINS, DNA
; TITLE OF INVENTION: SEQUENCES CODING THESE, ANTIBODIES AGAINST THESE PROTEINS,
; TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington, D.C.
; COUNTRY: USA
; ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/478,882
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/946,497
; FILING DATE: 19921109
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 16915/145
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:
; LENGTH: 363 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: mCD44

US-08-478-882-7

Query Match 8.0%; Score 88; DB 2; Length 363;
Best Local Similarity 21.6%; Pred. No. 0.11; Mismatches 23; Indels 30; Gaps 3;
Matches 24; Conservative 23; Mismatches 23; Indels 30; Gaps 3;
QY 128 IPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLLSGIWQRRR-----PLDMKGI 207
DB 256 VTTSGPMRPPQIPEWLLI---LASLLALAILAVCIANVSRRCQKKLVINGGNGTV 312
QY 172 KNKEPSEVDDADKCNMTIENGIPSD-----PLDMKGI 207
DB 313 EDRKPSLNGEASKQEMVHLVNKEPSETPDQCMTADETRNLSQVDMKIGV 363

```
; APPLICANT: GUENTHER, Ursula
; APPLICANT: MATZKU, Siegfried
; APPLICANT: WENZL, Achim
; TITLE OF INVENTION: VARIANT CD44 SURFACE PROTEINS, DNA
; TITLE OF INVENTION: SEQUENCES CODING THESE, ANTIBODIES AGAINST THESE PROTEINS,
; TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington, D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/946,497
; FILING DATE: 19921109
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 16915/145
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 503 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-946-497-2

Query Match 7.8%; Score 86; DB 1; Length 503;
Best Local Similarity 20.7%; Pred. No. 0.29;
Matches 23; Conservative 24; Mismatches 30; Indels 34; Gaps 3;

QY 128 IPSTLAPPMDSPVPIIIFGVIFCIIVAIALLILSGIWQRR-----171
DB 396 VTTTSGPARRPQIPENLII---LASLLALALILAVCIANRRRCGQKKLVINSNGTV 452
QY 172 KNKPSVDADKCKENMITIENGIPSD-----PLDMKGGI 207
DB 453 EDRKPSLNGEASKSQEWHLVNKEPTETPDQPMTADETRNLSQVDMKIGV 503

RESULT 15
US-08-483-322-2
; Sequence 2, Application US/08483322
; Patent No. 5760178
; GENERAL INFORMATION:
; APPLICANT: HERRLICH, Peter
; APPLICANT: PONTA, Helmut
; APPLICANT: GUENTHER, Ursula
; APPLICANT: MATZKU, Siegfried
; APPLICANT: WENZL, Achim
; TITLE OF INVENTION: VARIANT CD44 SURFACE PROTEINS, DNA
; TITLE OF INVENTION: SEQUENCES CODING THESE, ANTIBODIES AGAINST THESE PROTEINS,
; TITLE OF INVENTION: AS WELL AS THEIR USE IN DIAGNOSIS AND THERAPY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington, D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
```

```
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/483,322
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/946,497
; FILING DATE: 09-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 16915/145
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 503 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-483-322-2

Query Match 7.8%; Score 86; DB 1; Length 503;
Best Local Similarity 20.7%; Pred. No. 0.29;
Matches 23; Conservative 24; Mismatches 30; Indels 34; Gaps 3;

QY 128 IPSTLAPPMDSPVPIIIFGVIFCIIVAIALLILSGIWQRR-----171
DB 396 VTTTSGPARRPQIPENLII---LASLLALALILAVCIANRRRCGQKKLVINSNGTV 452
QY 172 KNKPSVDADKCKENMITIENGIPSD-----PLDMKGGI 207
DB 453 EDRKPSLNGEASKSQEWHLVNKEPTETPDQPMTADETRNLSQVDMKIGV 503

Search completed: March 31, 2004, 12:07:51
Job time : 24 secs
```

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	1102	100.0	212	9	US-09-989-723-387	Sequence 387, App
2	1102	100.0	212	9	US-09-989-723-387	Sequence 387, App
3	1102	100.0	212	9	US-09-989-729-387	Sequence 387, App
4	1102	100.0	212	9	US-09-989-727-387	Sequence 387, App
5	1102	100.0	212	9	US-09-989-731-387	Sequence 387, App
6	1102	100.0	212	9	US-09-989-732-387	Sequence 387, App
7	1102	100.0	212	9	US-09-991-073-387	Sequence 387, App
8	1102	100.0	212	9	US-09-930-442-387	Sequence 387, App
9	1102	100.0	212	9	US-09-991-163-387	Sequence 387, App
10	1102	100.0	212	9	US-09-993-604-387	Sequence 387, App
11	1102	100.0	212	9	US-09-990-456-387	Sequence 387, App
12	1102	100.0	212	9	US-09-989-721-387	Sequence 387, App
13	1102	100.0	212	9	US-09-992-598-387	Sequence 387, App
14	1102	100.0	212	9	US-09-989-293A-387	Sequence 387, App
15	1102	100.0	212	9	US-09-989-735-387	Sequence 387, App

[illegible]


```

; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. NO. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  MLMLPLPLVTAIHAEIHCOPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAMVAFSMRK 60
Db      1  MLMLPLPLVTAIHAEIHCOPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAMVAFSMRK 60

Qy      61  VPNEATEISHVLLCNTQVRSFVFVVTDPSSKHTLPVAVQSAIRNKNRINNAPFLND 120
Db      61  VPNEATEISHVLLCNTQVRSFVFVVTDPSSKHTLPVAVQSAIRNKNRINNAPFLND 120

Qy      121  QTLEFLKIPSTLAPPMDSPVPIWIIIFGVIFCIIVIAALLILSGIWMORRRKNKBPSEVD 180
Db      121  QTLEFLKIPSTLAPPMDSPVPIWIIIFGVIFCIIVIAALLILSGIWMORRRKNKBPSEVD 180

Qy      181  DAEDKCNMTIENGIPSDPLDMKGGILMMPSS 212
Db      181  DAEDKCNMTIENGIPSDPLDMKGGILMMPSS 212

RESULT 2
US-09-989-723-387
; Sequence 387, Application US/09989723
; Patent No. US20020072092A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C62
; CURRENT APPLICATION NUMBER: US/09/989, 723
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
```

;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089440
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089512
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696

;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 MLWLLPFLVTAHAEICQPGAEAFKVLISITLALGDKAYADTNEEYLPKAWAFSMRK 60
DB 1 MLWLLPFLVTAHAEICQPGAEAFKVLISITLALGDKAYADTNEEYLPKAWAFSMRK 60

QY 61 VFNREATRISHVLLCNVTQVSFWFVVTDPKSNHTLPAYEVQSAIRMKNRINNAPFLND 120
DB 61 VFNREATRISHVLLCNVTQVSFWFVVTDPKSNHTLPAYEVQSAIRMKNRINNAPFLND 120

QY 121 QTLFLKIPSTLAPMDPSVPWIIFGVIFCIIVAIALLILSGIWQRKKKEPSEVD 180
DB 121 QTLFLKIPSTLAPMDPSVPWIIFGVIFCIIVAIALLILSGIWQRKKKEPSEVD 180

QY 181 DAEDKCNMTIENGIPSPDLMDKGGILAMPS 212
DB 181 DAEDKCNMTIENGIPSPDLMDKGGILAMPS 212

RESULT 3
US-09-989-279-387
; Sequence 387, Application US/09989279
; Patent No. US20020072496A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC56
CURRENT APPLICATION NUMBER: US/09/989,279
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25

;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113; Mismatches 0; Indels 0; Gaps 0;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLWLLFFLVTAHSELCPGAENAFKVLISRTALGDKAYAMDTEEYLFKAWVAFSMRK 60
Db 1 MLWLLFFLVTAHSELCPGAENAFKVLISRTALGDKAYAMDTEEYLFKAWVAFSMRK 60

Qy 61 VNRBATEISHVLLCNVTQVSFWFVTPDPSKNHTLPAVEQSAIRMMKNRINNAFFLND 120
Db 61 VNRBATEISHVLLCNVTQVSFWFVTPDPSKNHTLPAVEQSAIRMMKNRINNAFFLND 120

Qy 121 QLEFLKIPSTLAPMDSVPVWIIIFGVPCIIIVAIALLILSGIWORRRKNKEPSEVD 180
Db 121 QLEFLKIPSTLAPMDSVPVWIIIFGVPCIIIVAIALLILSGIWORRRKNKEPSEVD 180

Qy 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212
Db 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212

RESULT 4
US-09-989-727-387
; Sequence 387, Application US/09989727
; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann

;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730PIC65
;; CURRENT APPLICATION NUMBER: US/09/989,727
;; CURRENT FILING DATE: 2001-11-19
;; PRIOR APPLICATION NUMBER: 60/049787
;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/065186
;; PRIOR FILING DATE: 1997-11-12
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066770
;; PRIOR FILING DATE: 1997-11-24
;; PRIOR APPLICATION NUMBER: 60/075945
;; PRIOR FILING DATE: 1998-02-25
;; PRIOR APPLICATION NUMBER: 60/078910
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/087106
;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/087607
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087609
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087759
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087827
;; PRIOR FILING DATE: 1998-06-03
;; PRIOR APPLICATION NUMBER: 60/088021
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088025
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088026
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088028
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088029
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088030
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088033
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088326
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088167
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088202
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088212
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088217
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088655
;; PRIOR FILING DATE: 1998-06-09
;; PRIOR APPLICATION NUMBER: 60/088734
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088738
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088742
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088810
;; PRIOR FILING DATE: 1998-06-10

;
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676

;
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09
;
Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MMLLFFLVTAIHAEIQCQGAENAFKVRISIRLTALGDKAYAMDTNEEYLFKAMVAFSMRK 60
DB 1 MMLLFFLVTAIHAEIQCQGAENAFKVRISIRLTALGDKAYAMDTNEEYLFKAMVAFSMRK 60
QY 61 VVNREATEISHVLLCNVTQVSFWVTDPSPKNTLPAYEVQSAISMKNRINNAPFLND 120
DB 61 VVNREATEISHVLLCNVTQVSFWVTDPSPKNTLPAYEVQSAISMKNRINNAPFLND 120
QY 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRRRKNKEPSEVD 180
DB 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRRRKNKEPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGILMPPS 212
DB 181 DAEDKCNMTIENGIPSDPLDMKGILMPPS 212
RESULT 5
US-09-989-731-387
; Sequence 387, Application US/09989731
; Patent No. US20020103125A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC70
CURRENT APPLICATION NUMBER: US/09/989,731
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC57
CURRENT APPLICATION NUMBER: US/09/989,732
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MLWLLFFLVTAHAEICQPGAEAPKVRISRTALGDKAYAWDTNERYLFKAWAFPSMRK 60
Db 1 MLWLLFFLVTAHAEICQPGAEAPKVRISRTALGDKAYAWDTNERYLFKAWAFPSMRK 60
Qy 61 VFNREATEISHVLLCNVTQVSFWFVVTDPDSKNHTLPAVEVQSALRMKNRINNAFFLND 120
Db 61 VFNREATEISHVLLCNVTQVSFWFVVTDPDSKNHTLPAVEVQSALRMKNRINNAFFLND 120
Qy 121 QTLFLEKIPSTLAPMDPSVPIIIFGVIFCIIIVATALLISGIWRRRRKNKEPSEVD 180
Db 121 QTLFLEKIPSTLAPMDPSVPIIIFGVIFCIIIVATALLISGIWRRRRKNKEPSEVD 180
Qy 181 DAEDKCNNTIENGIPSDPLDMKGILMPS 212
Db 181 DAEDKCNNTIENGIPSDPLDMKGILMPS 212

RESULT 6
US-09-989-732-387
Sequence 387, Application US/09989732
Patent No. US20020123463A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter

;; PRIOR APPLICATION NUMBER: 60/088655
;; PRIOR FILING DATE: 1998-06-09
;; PRIOR APPLICATION NUMBER: 60/088734
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088738
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088742
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088810
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088824
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088826
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088858
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088861
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089440
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089512
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472

;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLWLLFLVTATHAELCPGAENAFKVLRSIRTALGDKAYAWDTNEEYLPKAWAFSMRK 60
Db 1 MLWLLFLVTATHAELCPGAENAFKVLRSIRTALGDKAYAWDTNEEYLPKAWAFSMRK 60

Qy 61 VPNREATEISHVLLCNVTQVRSFVVTDPKXHTLPAVEVQSAIRKNNKRNNAFFLND 120
Db 61 VPNREATEISHVLLCNVTQVRSFVVTDPKXHTLPAVEVQSAIRKNNKRNNAFFLND 120

Qy 121 QTLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRKKEPSEVD 180
Db 121 QTLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRKKEPSEVD 180

Qy 181 DAEDKCNMTITIENGIPSDPLDMKGGILMMP 212
Db 181 DAEDKCNMTITIENGIPSDPLDMKGGILMMP 212

RESULT 7
US-09-991-073-387
; Sequence 387, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC15
CURRENT APPLICATION NUMBER: US/09/991,073
CURRENT FILING DATE: 2001-11-14
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202

PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24

; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;

Best Local Similarity 100.0%; Pred.No. 3.5e-113;

Matches 212;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MLMLPLVTAIHAEELCPGAEAPKRVLSIRLTALGDKAYAWDTNTEYLYLKAMVAFSMRK	60	
Db	1	MLMLPLVTAIHAEELCPGAEAPKRVLSIRLTALGDKAYAWDTNTEYLYLKAMVAFSMRK	60	
QY	61	VPNREATEISHVLLCNVTQVSFWFVVDPSKNHTLPAVEVQSAIRNKNRINNAFFLND	120	
Db	61	VPNREATEISHVLLCNVTQVSFWFVVDPSKNHTLPAVEVQSAIRNKNRINNAFFLND	120	
QY	121	QTLFELKIPSTLAPPMDSVPVITWIIIFGVITFCIIIVAIALLLSGIWQRNKNKEPSEVD	180	
Db	121	QTLFELKIPSTLAPPMDSVPVITWIIIFGVITFCIIIVAIALLLSGIWQRNKNKEPSEVD	180	
QY	181	DABDKCNMTIENGIPSDPLDMKGGILMMP	212	
Db	181	DABDKCNMTIENGIPSDPLDMKGGILMMP	212	

RESULT 8

US-09-990-442-387

; Sequence 387, Application US/09990442

; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C8
; CURRENT APPLICATION NUMBER: US/09/990,442
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04

;; PRIOR APPLICATION NUMBER: 60/088326
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088167
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088202
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088212
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088217
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088655
;; PRIOR FILING DATE: 1998-06-09
;; PRIOR APPLICATION NUMBER: 60/088734
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088738
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088742
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088810
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088824
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088826
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088858
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088861
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089440
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089512
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429

;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;

Best Local Similarity 100.0%; Pred. No. 3.5e-113;

Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLWLLPFLVTAHAEELCQPGAEAFKVRSLRTALGDKAYAWDTNVEYLPKAWVAFSMRK 60
Db 1 MLWLLPFLVTAHAEELCQPGAEAFKVRSLRTALGDKAYAWDTNVEYLPKAWVAFSMRK 60
Qy 61 VPNEATEISHVLNCNTQVRSFVWVTDPSKNHTLPAVEVQSARMMKNRINNAFFLND 120
Db 61 VPNEATEISHVLNCNTQVRSFVWVTDPSKNHTLPAVEVQSARMMKNRINNAFFLND 120
Qy 121 QTLFLKIPSTLAPPMPSVPIMIIIFGVIFCIIIVAILLILSGIWQRRRNKPSFVD 180
Db 121 QTLFLKIPSTLAPPMPSVPIMIIIFGVIFCIIIVAILLILSGIWQRRRNKPSFVD 180
Qy 181 DAEDKCNMTIENGIPSDPLDMGGLMMP 212
Db 181 DAEDKCNMTIENGIPSDPLDMGGLMMP 212

RESULT 9
US-09-991-163-387
Sequence 387, Application US/09991163
Patent No. US20020132253A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: P2730P1C17
CURRENT APPLICATION NUMBER: US/09/991,163
CURRENT FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029

PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22

;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLWLLPFLVTATHAEICQCAENAFKVRISIRLTALGDKAYADNTNBEYLFPKAWAFSMRK 60
Db 1 MLWLLPFLVTATHAEICQCAENAFKVRISIRLTALGDKAYADNTNBEYLFPKAWAFSMRK 60
QY 61 VPNREATEISHVLLCNVTQKVSFWFVVTDPKSKHNTLPAAVEQSAIRMNKNRINNAFFLND 120
Db 61 VPNREATEISHVLLCNVTQKVSFWFVVTDPKSKHNTLPAAVEQSAIRMNKNRINNAFFLND 120
QY 121 QTLFLKIPSTLAPPMDSVPFIWIIIFGVFCIIIVAAIIILSGIWMQRRRNKPESEVD 180
Db 121 QTLFLKIPSTLAPPMDSVPFIWIIIFGVFCIIIVAAIIILSGIWMQRRRNKPESEVD 180

Db 121 QTLFLKIPSTLAPPMDSVPFIWIIIFGVFCIIIVAAIIILSGIWMQRRRNKPESEVD 180
QY 181 DAEDKCNMTTIENGIPSDPLDMKGGILAMPS 212
Db 181 DAEDKCNMTTIENGIPSDPLDMKGGILAMPS 212

RESULT 10

US-09-993-604-387
; Sequence 387, Application US/09993604
; Patent No. US20020137075A1
; GENERAL INFORMATION:
; APPLICANT: Askenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C25
; CURRENT APPLICATION NUMBER: US/09/993,604
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04

;; PRIOR APPLICATION NUMBER: 60/088026
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088028
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088029
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088030
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088033
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088326
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088167
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088202
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088212
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088217
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088655
;; PRIOR FILING DATE: 1998-06-09
;; PRIOR APPLICATION NUMBER: 60/088734
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088738
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088742
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088810
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088824
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088826
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088858
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088861
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089440
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089512
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246

;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;

Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MWLLFFLVTAHAEICQGAENAFKVRLSIRTALGDKAYAWDTNBEYLFKAMVAFSMRK 60

DB 1 MWLLFFLVTAHAEICQGAENAFKVRLSIRTALGDKAYAWDTNBEYLFKAMVAFSMRK 60

QY 61 VFNREATEISHVLLCNVQTVSFNVVTPDPSKNHTLPAVEVQSAIRMKKURINNAPFLND 120

Db 61 VNRKATEISHVLLCNVTORVSFWFVVTDSKNHTLPAVEVOSAKRMNKRINNAPFLND 120
QY 121 OTLEFLKIPSTLAPMDPSVPVPIIIFGVIFCIIIVAIALLILSGIWRRRRNKPSSEVD 180
Db 121 OTLEFLKIPSTLAPMDPSVPVPIIIFGVIFCIIIVAIALLILSGIWRRRRNKPSSEVD 180
QY 181 DAEDKCNMTTENGIPSDPLMKGILMPS 212
Db 181 DAEDKCNMTTENGIPSDPLMKGILMPS 212

RESULT 11
US-09-990-456-387
; Sequence 387, Application US/0990456
; Patent No. US20020137890A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gueney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC22
; CURRENT APPLICATION NUMBER: US/09/990,456
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827

; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19

;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MWLLPFLVTAHAEICQGAENAPKVRLSIRIALGDKAYAWDTNEEYLFKANVAFSMRK 60
DB 1 MWLLPFLVTAHAEICQGAENAPKVRLSIRIALGDKAYAWDTNEEYLFKANVAFSMRK 60
QY 61 VENREATEISHVLLCNVTQRVSFVFWVTDPSKHHTLPAYEVQSAIRMNKNRINNAPFLND 120
DB 61 VENREATEISHVLLCNVTQRVSFVFWVTDPSKHHTLPAYEVQSAIRMNKNRINNAPFLND 120
QY 121 QTLFELKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRKKKPSSEVD 180
DB 121 QTLFELKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRKKKPSSEVD 180
QY 181 DAEDKCNMTTENGIPSDPLDMKGGILAMPS 212
DB 181 DAEDKCNMTTENGIPSDPLDMKGGILAMPS 212

RESULT 12

US-09-989-721-387
; Sequence 387, Application US/09989721
; Patent No. US20020142961A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC55
; CURRENT APPLICATION NUMBER: US/09/989,721
; PRIOR FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02

1 PRIOR APPLICATION NUMBER: 60/087609
2 PRIOR FILING DATE: 1998-06-02
3 PRIOR APPLICATION NUMBER: 60/087759
4 PRIOR FILING DATE: 1998-06-02
5 PRIOR APPLICATION NUMBER: 60/087827
6 PRIOR FILING DATE: 1998-06-03
7 PRIOR APPLICATION NUMBER: 60/088021
8 PRIOR FILING DATE: 1998-06-04
9 PRIOR APPLICATION NUMBER: 60/088025
10 PRIOR FILING DATE: 1998-06-04
11 PRIOR APPLICATION NUMBER: 60/088026
12 PRIOR FILING DATE: 1998-06-04
13 PRIOR APPLICATION NUMBER: 60/088028
14 PRIOR FILING DATE: 1998-06-04
15 PRIOR APPLICATION NUMBER: 60/088029
16 PRIOR FILING DATE: 1998-06-04
17 PRIOR APPLICATION NUMBER: 60/088030
18 PRIOR FILING DATE: 1998-06-04
19 PRIOR APPLICATION NUMBER: 60/088033
20 PRIOR FILING DATE: 1998-06-04
21 PRIOR APPLICATION NUMBER: 60/088326
22 PRIOR FILING DATE: 1998-06-04
23 PRIOR APPLICATION NUMBER: 60/088167
24 PRIOR FILING DATE: 1998-06-05
25 PRIOR APPLICATION NUMBER: 60/088202
26 PRIOR FILING DATE: 1998-06-05
27 PRIOR APPLICATION NUMBER: 60/088212
28 PRIOR FILING DATE: 1998-06-05
29 PRIOR APPLICATION NUMBER: 60/088217
30 PRIOR FILING DATE: 1998-06-05
31 PRIOR APPLICATION NUMBER: 60/088655
32 PRIOR FILING DATE: 1998-06-09
33 PRIOR APPLICATION NUMBER: 60/088734
34 PRIOR FILING DATE: 1998-06-10
35 PRIOR APPLICATION NUMBER: 60/088738
36 PRIOR FILING DATE: 1998-06-10
37 PRIOR APPLICATION NUMBER: 60/088742
38 PRIOR FILING DATE: 1998-06-10
39 PRIOR APPLICATION NUMBER: 60/088810
40 PRIOR FILING DATE: 1998-06-10
41 PRIOR APPLICATION NUMBER: 60/088824
42 PRIOR FILING DATE: 1998-06-10
43 PRIOR APPLICATION NUMBER: 60/088826
44 PRIOR FILING DATE: 1998-06-10
45 PRIOR APPLICATION NUMBER: 60/088858
46 PRIOR FILING DATE: 1998-06-11
47 PRIOR APPLICATION NUMBER: 60/088861
48 PRIOR FILING DATE: 1998-06-11
49 PRIOR APPLICATION NUMBER: 60/088876
50 PRIOR FILING DATE: 1998-06-11
51 PRIOR APPLICATION NUMBER: 60/089105
52 PRIOR FILING DATE: 1998-06-12
53 PRIOR APPLICATION NUMBER: 60/089440
54 PRIOR FILING DATE: 1998-06-16
55 PRIOR APPLICATION NUMBER: 60/089512
56 PRIOR FILING DATE: 1998-06-16
57 PRIOR APPLICATION NUMBER: 60/089514
58 PRIOR FILING DATE: 1998-06-16
59 PRIOR APPLICATION NUMBER: 60/089532
60 PRIOR FILING DATE: 1998-06-17
61 PRIOR APPLICATION NUMBER: 60/089538
62 PRIOR FILING DATE: 1998-06-17
63 PRIOR APPLICATION NUMBER: 60/089598
64 PRIOR FILING DATE: 1998-06-17
65 PRIOR APPLICATION NUMBER: 60/089599
66 PRIOR FILING DATE: 1998-06-17
67 PRIOR APPLICATION NUMBER: 60/089600
68 PRIOR FILING DATE: 1998-06-17
69 PRIOR APPLICATION NUMBER: 60/089653
70 PRIOR FILING DATE: 1998-06-17
71 PRIOR APPLICATION NUMBER: 60/089801
72 PRIOR FILING DATE: 1998-06-18
73 PRIOR APPLICATION NUMBER: 60/089907

74 PRIOR FILING DATE: 1998-06-18
75 PRIOR APPLICATION NUMBER: 60/089908
76 PRIOR FILING DATE: 1998-06-18
77 PRIOR APPLICATION NUMBER: 60/089947
78 PRIOR FILING DATE: 1998-06-19
79 PRIOR APPLICATION NUMBER: 60/089948
80 PRIOR FILING DATE: 1998-06-19
81 PRIOR APPLICATION NUMBER: 60/089952
82 PRIOR FILING DATE: 1998-06-19
83 PRIOR APPLICATION NUMBER: 60/090246
84 PRIOR FILING DATE: 1998-06-22
85 PRIOR APPLICATION NUMBER: 60/090252
86 PRIOR FILING DATE: 1998-06-22
87 PRIOR APPLICATION NUMBER: 60/090254
88 PRIOR FILING DATE: 1998-06-22
89 PRIOR APPLICATION NUMBER: 60/090349
90 PRIOR FILING DATE: 1998-06-23
91 PRIOR APPLICATION NUMBER: 60/090355
92 PRIOR FILING DATE: 1998-06-23
93 PRIOR APPLICATION NUMBER: 60/090429
94 PRIOR FILING DATE: 1998-06-24
95 PRIOR APPLICATION NUMBER: 60/090431
96 PRIOR FILING DATE: 1998-06-24
97 PRIOR APPLICATION NUMBER: 60/090435
98 PRIOR FILING DATE: 1998-06-24
99 PRIOR APPLICATION NUMBER: 60/090444
100 PRIOR FILING DATE: 1998-06-24
101 PRIOR APPLICATION NUMBER: 60/090445
102 PRIOR FILING DATE: 1998-06-24
103 PRIOR APPLICATION NUMBER: 60/090472
104 PRIOR FILING DATE: 1998-06-24
105 PRIOR APPLICATION NUMBER: 60/090535
106 PRIOR FILING DATE: 1998-06-24
107 PRIOR APPLICATION NUMBER: 60/090540
108 PRIOR FILING DATE: 1998-06-24
109 PRIOR APPLICATION NUMBER: 60/090542
110 PRIOR FILING DATE: 1998-06-24
111 PRIOR APPLICATION NUMBER: 60/090557
112 PRIOR FILING DATE: 1998-06-24
113 PRIOR APPLICATION NUMBER: 60/090676
114 PRIOR FILING DATE: 1998-06-25
115 PRIOR APPLICATION NUMBER: 60/090678
116 PRIOR FILING DATE: 1998-06-25
117 PRIOR APPLICATION NUMBER: 60/090690
118 PRIOR FILING DATE: 1998-06-25
119 PRIOR APPLICATION NUMBER: 60/090694
120 PRIOR FILING DATE: 1998-06-25
121 PRIOR APPLICATION NUMBER: 60/090695
122 PRIOR FILING DATE: 1998-06-25
123 PRIOR APPLICATION NUMBER: 60/090696
124 PRIOR FILING DATE: 1998-06-25
125 PRIOR APPLICATION NUMBER: 60/090862
126 PRIOR FILING DATE: 1998-06-26
127 PRIOR APPLICATION NUMBER: 60/090863
128 PRIOR FILING DATE: 1998-06-26
129 PRIOR APPLICATION NUMBER: 60/091360
130 PRIOR FILING DATE: 1998-07-01
131 PRIOR APPLICATION NUMBER: 60/091478
132 PRIOR FILING DATE: 1998-07-02
133 PRIOR APPLICATION NUMBER: 60/091544
134 PRIOR FILING DATE: 1998-07-01
135 PRIOR APPLICATION NUMBER: 60/091519
136 PRIOR FILING DATE: 1998-07-02
137 PRIOR APPLICATION NUMBER: 60/091626
138 PRIOR FILING DATE: 1998-07-02
139 PRIOR APPLICATION NUMBER: 60/091633
140 PRIOR FILING DATE: 1998-07-02
141 PRIOR APPLICATION NUMBER: 60/091978
142 PRIOR FILING DATE: 1998-07-07
143 PRIOR APPLICATION NUMBER: 60/091982
144 PRIOR FILING DATE: 1998-07-07
145 PRIOR APPLICATION NUMBER: 60/092182
146 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLFFLVTAIHAEELCQGAENAFKVRISIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
DB 1 MLWLLFFLVTAIHAEELCQGAENAFKVRISIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60

QY 61 VPREATEISHVLLCNVTRQVSFWFVVDTSKNHTLPAVEQSAIRMKNKRNINNAFFLND 120
DB 61 VPREATEISHVLLCNVTRQVSFWFVVDTSKNHTLPAVEQSAIRMKNKRNINNAFFLND 120

QY 121 QTLFELKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAILLILSGIWQRKKKBPSEVD 180
DB 121 QTLFELKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAILLILSGIWQRKKKBPSEVD 180

QY 181 DAEDKCNMTTIENGIPSDPLDMKGGILMMP 212
DB 181 DAEDKCNMTTIENGIPSDPLDMKGGILMMP 212

RESULT 13

US-09-992-598-387
; Sequence 387, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C20
; CURRENT APPLICATION NUMBER: US/09/992,598
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600

; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17


```
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match          100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113; Indels 0; Gaps 0;
Matches 212; Conservative 0; Mismatches 0;

Qy 1 MLWLLFFLVTAHAEIHCQGAENAFKRLSIRLTALGDKAYAWDTNBYLFKAWAFSRK 60
   |||||
Db 1 MLWLLFFLVTAHAEIHCQGAENAFKRLSIRLTALGDKAYAWDTNBYLFKAWAFSRK 60

Qy 61 VFNREATEISHVLLCNVTQRVSFWVTVDPSKNHTLPAVEVQSARIMNKNRINNAFFLND 120
   |||||
Db 61 VFNREATEISHVLLCNVTQRVSFWVTVDPSKNHTLPAVEVQSARIMNKNRINNAFFLND 120

Qy 121 QTLFELKIPSTLAPMDPSVPIWIIIFGVPCIIIVATALLILSGIWORRRKNKEPSEVD 180
   |||||
Db 121 QTLFELKIPSTLAPMDPSVPIWIIIFGVPCIIIVATALLILSGIWORRRKNKEPSEVD 180

Qy 181 DAEDKCNMTIENGIPSDPLDMKGILMPS 212
   |||||
Db 181 DAEDKCNMTIENGIPSDPLDMKGILMPS 212

RESULT 15
US-09-989-735-387
; Sequence 387, Application US/09989735
; Publication No. US200201932991
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C61
; CURRENT APPLICATION NUMBER: US/09/989,735
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
```

;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478

;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1102; DB 9; Length 212;
Best Local Similarity 100.0%; Pred. No. 3.5e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLWLLPFLVTAHABELCOPGAENAFKVRLSIRTALGDKAYAWDTNEEYLFKAMVAFSMRK 60
Db 1 MLWLLPFLVTAHABELCOPGAENAFKVRLSIRTALGDKAYAWDTNEEYLFKAMVAFSMRK 60

Qy 61 VFNREATEISHVLLCNVTQVSFWVVTDPKSNHTLPAVEVQSATMKNKNNINNAFFLND 120
Db 61 VFNREATEISHVLLCNVTQVSFWVVTDPKSNHTLPAVEVQSATMKNKNNINNAFFLND 120

Qy 121 QTLBFLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLISGIWQRRKKNKPSVD 180
Db 121 QTLBFLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLISGIWQRRKKNKPSVD 180

Qy 181 DAEDKCNMTTENGIPSDPLDMKGILMPPS 212
Db 181 DAEDKCNMTTENGIPSDPLDMKGILMPPS 212

Search completed: March 31, 2004, 12:12:28
Job time : 43 secs

GenCore version 5.1.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model
Run on: April 3, 2004, 23:26:59 ; Search time 3771 Seconds
(without alignments)
2436.681 Million cell updates/sec

Title: US-09-989-724-387
Perfect score: 1102
Sequence: 1 MLWLLFLVTAHAEACQPG.....ENGIPSDPLDKGGLMMPMS 212

Scoring table:
BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlh
-O=/cgm2_1/USPTO_spool/US09989724/runat_31032004_081140_13287/app_query.fasta_1.391
-DB=GenEmbl -QFMT=fastap -SUFFIX=rge -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THRM SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09989724 @CGN 1.1 2496 @runat_31032004_081140_13287 -NCPU=6 -ICPU=3
-NO_MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPEXT=0.5 -FGAPOPEXT=6
-FGAPEXT=7 -YGAPOPEXT=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

- 1: gb_ba:*
- 2: gb_htg:*
- 3: gb_in:*
- 4: gb_on:*
- 5: gb_ov:*
- 6: gb_pat:*
- 7: gb_ph:*
- 8: gb_pl:*
- 9: gb_pr:*
- 10: gb_ro:*
- 11: gb_sts:*
- 12: gb_sy:*
- 13: gb_un:*
- 14: gb_vi:*
- 15: em_ba:*
- 16: em_fun:*
- 17: em_hum:*
- 18: em_in:*
- 19: em_mu:*
- 20: em_on:*
- 21: em_or:*
- 22: em_ov:*
- 23: em_pat:*
- 24: em_ph:*
- 25: em_pl:*
- 26: em_ro:*
- 27: em_sts:*
- 28: em_un:*

- 29: em_vi:*
- 30: em_htg_hum:*
- 31: em_htg_inv:*
- 32: em_htg_other:*
- 33: em_htg_mus:*
- 34: em_htg_pln:*
- 35: em_htg_rtd:*
- 36: em_htg_mam:*
- 37: em_htg_vrt:*
- 38: em_sy:*
- 39: em_htgo_hum:*
- 40: em_htgo_mus:*
- 41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1102	100.0	1346	6	AR252633 Sequence
2	1102	100.0	1346	6	AX403499 Sequence
3	1102	100.0	1346	6	AX464348 Sequence
4	1102	100.0	1346	9	AY359060 Homo sapi
5	1089	98.8	666	6	AX083382 Sequence
6	1089	98.8	1345	9	AP229179 Homo sapi
7	1089	98.8	1347	6	AX083392 Sequence
8	1089	98.8	1377	9	BC050606 Homo sapi
9	1089	98.8	1440	9	BC015099 Homo sapi
10	1089	98.8	1605	9	BC014317 Homo sapi
11	1086	98.5	1401	6	BD083420 Secreted
12	1082	98.2	1447	6	BD205644 97 human
13	1064	96.6	848	6	AR177334 Sequence
14	1064	96.6	848	6	BD247957 5' EST of
15	1064	96.6	848	6	AR340701 Sequence
16	1064	96.6	848	6	AR412373 Sequence
17	1064	96.6	848	6	AX884142 Sequence
18	1064	96.6	848	6	BD023757 Sequence
19	1064	96.6	848	6	BD073618 5' EST of
20	1064	96.6	848	6	BD075896 5' EST of
21	1064	96.6	848	6	BD076074 5' EST of
22	1064	96.6	848	6	BD076775 5' EST of
23	1064	96.6	848	6	BD077436 5' EST of
24	1064	96.6	848	6	BD077737 5' EST of
25	1064	96.6	848	6	BD085880 Elongatio
26	1064	96.6	848	6	BD107926 EST and e
27	1064	96.6	848	6	BD131408 cDNA enco
28	1064	96.6	848	6	BD139270 Extended
29	1064	96.6	848	6	BD203799 5'EST and
30	1062	96.4	1356	6	BD135300 110 human
31	931	84.5	1222	10	BC049912 Mus muscu
32	931	84.5	1262	10	AF178085 Mus muscu
33	924	83.8	1181	10	AF178086 Rattus no
34	694	63.0	439	6	BD077452 5'EST of
35	674	61.2	462	6	BD058424 Secreted
36	488	44.3	1131	5	BC058203 Xenopus l
37	387.5	35.2	1879	5	BC053284 Danio rer
38	376	34.1	2415	6	AR135178 Sequence
39	376	34.1	2415	6	BD274685 Angiotens
40	376	34.1	2415	6	E43987 ACE-analog
41	376	34.1	2415	6	AR382342 Sequence
42	376	34.1	2415	6	AX418984 Sequence
43	376	34.1	2418	6	E39033 MPROT15 pol
44	376	34.1	2599	6	E43988 ACE-analog
45	376	34.1	3325	9	AF291820 Homo sapi

ALIGNMENTS

AR252633 LOCUS AR252633 1346 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 386 from patent US 6478825.
ACCESSION AR252633
VERSION AR252633.1 GI:27300541
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1346)
AUTHORS Winterbottom, J.M., Shimp, L., Boyce, T.M. and Kaes, D.
TITLE Implant, method of making same and use of the implant for the treatment of bone defects
JOURNAL Patent: US 6478825-A 386 12-NOV-2002;
FEATURES
source Location/Qualifiers
1..1346
/organism="unknown"
/mol_type="genomic DNA"
ORIGIN
Alignment Scores: 2,796-114 Length: 1346
Pred. No.: 1102.00 Matches: 212
Score: 1102.00
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0
US-09-989-724-387 (1-212) x AR252633 (1-1346)
QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHieAlaGluLeuCysGlnProGly 20
Db 7 ATGTTGTGGCTGCTCTTTCTGGTGAAGTGGCAATTCATGCTGCAACTCTGTCAACGAGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleAArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 126
QY 41 AlaTrpAspThrAsnGluLufYrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGATACCAATGAAGATACCTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTACTTTGCAATGTAACCCAGAGG 246
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisValLeuLeuProAlaValGlu 100
Db 247 GTATCATCTGGTTTGTGGTTACAGACCTTCAAAAATACACACCTTCTGCTGTGG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db 307 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACATGCCTTCTTCTAAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
Db 367 CAACACTCGAATTTTAAATAATCCCTCCACACTTGCACCCACCCCATCTGTG 426
QY 141 ProfileTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
Db 427 CCATCTGGATTAATATATTTGGTGTGATATTTGTCATCATCATAGTTGCAATTGCACTA 486
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTTATCAGGATCTGGCAACGTCAGAGAAAGAACAAAGAACCATCTGAAGTGGAT 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GACGCTGAGATAAGTGTGAAGAACATGATCACAATTTGAAAATGGCATCCCTCTGATCC 606
QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
Db 607 CTGGACATGAAGGGGGGCATATTAATGATGCTTCA 642

RESULT 2
AX403499 LOCUS AX403499 1346 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 386 from Patent WO0073454.
ACCESSION AX403499
VERSION AX403499.1 GI:21436987
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Ashkenazi, A.J., Baker, K.P., Botstein, D., Deanov, L., Eaton, D., Ferrara, N., Gerber, H., Gertitsen, M., Goddard, A., Godowski, P., Grimaldi, C.J., Gurney, A.L., Kljavin, I., Napier, M.A., Pan, J., Paoni, N.P., Roy, M., Stewart, T.A., Tumas, D., Watanabe, C.K., Williams, P., Wood, W.I. and Zhang, Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding the same
JOURNAL Patent: WO 0073454-A 386 07-DEC-2000;
Genentech Inc. (US)
FEATURES
source Location/Qualifiers
1..1346
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Alignment Scores: 2,796-114 Length: 1346
Pred. No.: 1102.00 Matches: 212
Score: 1102.00
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0
US-09-989-724-387 (1-212) x AX403499 (1-1346)
QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHieAlaGluLeuCysGlnProGly 20
Db 7 ATGTTGTGGCTGCTCTTTCTGGTGAAGTGGCAATTCATGCTGCAACTCTGTCAACGAGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleAArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 126
QY 41 AlaTrpAspThrAsnGluLufYrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGATACCAATGAAGATACCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTACTTTGCAATGTAACCCAGAGG 246
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisValLeuLeuProAlaValGlu 100
Db 247 GTATCATCTGGTTTGTGGTTACAGACCTTCAAAAATACACACCTTCTGCTGTGG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db 307 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACATGCCTTCTTCTAAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
Db 367 CAACACTCGAATTTTAAATAATCCCTCCACACTTGCACCCACCCCATCTGTG 426
QY 141 ProfileTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
Db 427 CCATCTGGATTAATATATTTGGTGTGATATTTGTCATCATCATAGTTGCAATTGCACTA 486
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180

Db 487 CTGATTTTATCAGGGATCTGGCAAGTAGAAGAAAGAACAAAGAACCATCTGAAGTGGAT 546

Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 Db 547 GACGCTGAAGATAAGTGTGAACAACATGATCAATTTGAATGGCATCCCTCTGATCCC 606

Qy 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
 Db 607 CTGGACATGAAGGGGGGCATATTAAATGATGCTTCA 642

RESULT 3
 AX464348
 LOCUS AX464348 1346 bp DNA linear PAT 16-JUL-2002
 DEFINITION Sequence 481 from Patent WO0140466.
 ACCESSION AX464348
 VERSION AX464348.1 GI:21899190
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1
 AUTHORS Baker, K.P., Beresini, M., Deforge, L., Desnoyers, L., Filvaroff, E.,
 Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,
 Sherwood, S., Smith, V., Stewart, T.A., Tamas, D., Watanabe, C.K.,
 Wood, W.L. and Zhang, Z.
 TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
 same
 JOURNAL Patent: WO 0140466-A 481 07-JUN-2001;
 Genentech Inc. (US)
 FEATURES
 source Location/Qualifiers
 1. .1346
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN
 Alignment Scores:
 Pred. No.: 2,79e-114 Length: 1346
 Score: 1102.00 Matches: 212
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 6 Gaps: 0

US-09-989-724-387 (1-212) x AX464348 (1-1346)

Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
 Db 7 ATGTTGTGGCTGCTCTTTTCTGGTGACTGCCATTCAGCTGAACCTCTGCAACCAAGT 66

Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGluAspLysAlaTyr 40
 Db 67 GCAGAAATGCTTTTAAAGTGAGCTTAGTATCAGACAGCTCTGGGAGATAAGCATAT 126

Qy 41 AlaTrpAspThrAsnGluGlyTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
 Db 127 GCCTGGGATACCAATGAAGAAATACCTCTTCAAAGCGATGGTACGCTTCTCCATGAGAAA 186

Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
 Db 187 GTTCCCAACAGAGAACACAGAAATTTCCCATGCTTCTTGAATGTAAACCCAGAGG 246

Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 Db 247 GTATCATCTGTTGTGTGTACAGACCTTCAAAAATCATCACCTTCTCTGCTGTGAG 306

Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
 Db 307 GTGCAATCAGCCATAAGATGAACAGAACCGATCAACAAATGCGCTTCTTCTTAATGAC 366

Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
 |||||||

Db 367 CAAACTCTGGAAATTTTAAAAATCCCTTCCACACTTGCACACCACTGAGCAACCATCTGTG 426

Qy 141 ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
 Db 427 CCCATCTGGATTATATATTTTGGTGTGATATTTTGCATCATCATAGTTCGAATGGACAT 486

Qy 161 LeuLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
 Db 487 CTGATTTTATCAGGGATCTGGCAAGTAGAAGAAAGAACAAAGAACCATCTGAAGTGGAT 546

Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 Db 547 GACGCTGAAGATAAGTGTGAACAACATGATCAATTTGAATGGCATCCCTCTGATCCC 606

Qy 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
 Db 607 CTGGACATGAAGGGGGGCATATTAAATGATGCTTCA 642

RESULT 4
 AX359060
 LOCUS AX359060 1346 bp mRNA linear PRI 03-OCT-2003
 DEFINITION Homo sapiens clone DNA61873 NK-17 (UNQ678) mRNA, complete cds.
 ACCESSION AV359060
 VERSION AV359060.1 GI:37183237
 KEYWORDS FLI_CDNA.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1346)
 AUTHORS Clark, H.P., Gurney, A.L., Abaya, E., Baker, K., Baldwin, D., Brush, J.,
 Chen, J.P., Chow, B., Chui, C., Crowley, C., Currell, B., Deuel, B.,
 Dowd, P., Eaton, D., Foster, J., Grimaldi, C., Gu, Q., Hass, P.E.,
 Heldens, S., Huang, A., Kim, H.S., Klimowski, L., Jin, Y., Johnson, S.,
 Lee, J., Lewis, L., Liao, D., Mark, M., Robbie, E., Sanchez, C.,
 Schoenfeld, J., Seshagiri, S., Simmons, L., Singh, J., Smith, V.,
 Stinson, J., Vagte, A., Vandien, R., Watanabe, C., Wiand, D., Woods, K.,
 Xie, M.H., Yansura, D., Yi, S., Yu, G., Yuan, J., Zhang, M., Zhang, Z.,
 Goddard, A., Wood, W.I. and Godowski, P.
 TITLE The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
 Effort to Identify Novel Human Secreted and Transmembrane Proteins:
 A Bioinformatics Assessment
 JOURNAL Genome Res. 13 (10), 2265-2270 (2003)
 PUBMED 12975309
 REFERENCE 2 (bases 1 to 1346)
 AUTHORS Clark, H.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
 Inc., 1 DNA Way, South San Francisco, CA 94080, USA
 FEATURES
 Location/Qualifiers
 1. .1346
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="DNA61873"
 1. .1346
 /locus_tag="UNQ678"
 7. .645
 /locus_tag="UNQ678"
 /note="PRO1312"
 /codon_start=1
 /product="NK-17"
 /protein_id="AAQ89419.1"
 /db_xref="GI:37183238"
 /translation="MLTLLPFLVTAIHAELQCPAGNAFKVRLSIRTLALGDKAYADMT
 NEEYLFKAWAFPMKVPNRRATEISHVLLCNVTORVSFVFWVTPDSKNHTLPAVEVQ
 SAIRMKNRINNAFLNDQLEFLKPSLAPPDPSPIWIIIGVIFCIILVAL
 LILSGIMORRRNKPEPSVDABDKENNITTIENGIPSDPLMKGILMMPs"

ORIGIN
 Alignment Scores:
 Pred. No.: 2,79e-114 Length: 1346
 Score: 1102.00 Matches: 212

Percent Similarity: 100.00%
 Best Local Similarity: 100.00%
 Query Match: 100.00%
 DB: 9
 Conservative: 0
 Mismatches: 0
 Indels: 0
 Gaps: 0

US-09-989-724-387 (1-212) x AV359060 (1-1346)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
 DB 7 ATGTTGTGGCTGCTCTTTTCTGGTACTGTCATTCATGCACTCTGCAACAGGT 66
 QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
 DB 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 126
 QY 41 AlaTAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
 DB 127 GCTGGGATACCATGAGAAATACCTCTTCAAGCCATGCTGCTTCTCCATGAGAAA 186
 QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
 DB 187 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAACCCAGAG 246
 QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 DB 247 GTATCATCTGCTGTTTGTGGTTACAGACCTTCAAAAAATCACACCTTCTGCTGTGAG 306
 QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
 DB 307 GTGCAATCAGCCCATAGATGAACAGAACCCGATCAACATGCTTCTTCAATGAG 366
 QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal 140
 DB 367 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCCACCCATGACCCATCTGTG 426
 QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
 DB 427 CCATCTGGATATTATATTGTTGTGATATTGTCATCATCATGATGCAATGCACTA 486
 QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
 DB 487 CTGATTTTATCAGGATCTGGCACTAGAGAACAGAACAGAACCATCTGAGTGGAT 546
 QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 DB 547 GAGCTGAAGATAAGTGTGAACATGATCACAATTTGAAATGGCATCCCTCTGATCCC 606
 QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
 DB 607 CTGGACATGAAGGGGGGCATATTAAATGATGCCCTTCA 642

RESULT 5
 LOCUS AX083382 666 bp DNA linear PAT 28-FEB-2001
 DEFINITION Sequence 74 from Patent WO0112660.
 ACCESSION AX083382
 VERSION AX083382.1 GI:13185219

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
 Kato, S. and Kimura, T.
 Human proteins having hydrophobic domains and dnas encoding these
 proteins
 TITLE Patent: WO 0112660-A 74 22-FEB-2001;
 JOURNAL SAGAMI CHEMICAL RESEARCH CENTER (JP); Protegene Inc. (JP)
 FEATURES Location/Qualifiers

1..666
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

Alignment Scores: 3.46e-113 Length: 666
 Pred. No.: 1089.00 Matches: 212
 Score: 98.53% Conservative: 0
 Percent Similarity: 98.53% Mismatches: 0
 Best Local Similarity: 98.82% Indels: 1
 Query Match: 6 Gaps: 0
 DB: 6
 US-09-989-724-387 (1-212) x AX083382 (1-666)
 QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
 DB 1 ATGTTGTGGCTGCTCTTTTCTGGTACTGTCATTCATGCACTCTGCAACAGGT 60
 QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
 DB 61 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 120
 QY 41 AlaTAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
 DB 121 GCTGGGATACCATGAGAAATACCTCTTCAAGCCATGCTGCTTCTCCATGAGAAA 180
 QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
 DB 181 GTTCCCAACAGAGAACCAAGAAATTTCCCATGCTCTACTTTGCAATGTAACCCAGAG 240
 QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 DB 241 GTATCATCTGCTGTTTGTGGTTACAGACCTTCAAAAAATCACACCTTCTGCTGTGAG 300
 QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
 DB 301 GTGCAATCAGCCCATAGATGAACAGAACCCGATCAACATGCTTCTTCAATGAG 360
 QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal 140
 DB 361 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCCACCCATGACCCATCTGTG 420
 QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
 DB 421 CCATCTGGATATTATATTGTTGTGATATTGTCATCATCATGATGCAATGCACTA 480
 QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
 DB 481 CTGATTTTATCAGGATCTGGCACTAGAGAACAGAACAGAACCATCTGAGTGGAT 540
 QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 DB 541 GAGCTGAAGATAAGTGTGAACATGATCACAATTTGAAATGGCATCCCTCTGATCCC 600
 QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
 DB 601 CTGGACATGAAGGGGGGCATATTAAATGATGCCCTTCA 637

RESULT 6

LOCUS AF229179 1345 bp mRNA linear PRI 05-APR-2002
 DEFINITION Homo sapiens collectrin mRNA, complete cds.
 ACCESSION AF229179
 VERSION AF229179.1 GI:9957753

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1345)
 Zhang, H., Wada, J., Hida, K., Teuchiya, Y., Hiraguchi, K.,
 Shikata, K., Wang, H., Lin, S., Kanwar, Y.S. and Makino, H.
 Collectrin, a collecting duct-specific transmembrane glycoprotein,
 is a novel homolog of ACE2 and is developmentally regulated in
 embryonic kidneys

J. Biol. Chem. 276 (20), 17132-17139 (2001)
21264468
MEDLINE
PUBMED
11278314
REFERENCE
2 (bases 1 to 1345)
AUTHORS
Zhang, H., Wada, J. and Makino, H.
TITLE
Human kidney specific membrane protein (NX-17)
JOURNAL
Unpublished
3 (bases 1 to 1345)
REFERENCE
Zhang, H., Wada, J. and Makino, H.
AUTHORS
Direct Submission
TITLE
Submitted (28-JAN-2000) Department of Medicine III, Okayama
JOURNAL
University Medical School, 2-5-1 Shikata-cho, Okayama 700-8558,
Japan

Location/Qualifiers
1. .1345
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
24. .692
/note="kidney-specific membrane protein NX-17; similar to
the Mus musculus and Rattus norvegicus products encoded by
GenBank Accession Numbers AF178085 and AF178086,
respectively"
/codon_start=1
/product="collectrin"
/protein_id="AAG09466.1"
/db_xref="GI:9957754"
/translations="MLWLLFLVTAHAEICQPAENAPKVRLSIRFALGDKAYAND
NEEYLPKAMVAFSFKVQPAKEAEIEISHLVLCNTQVRVSFWFVTDSEKHTLPAVEVO
SAIRMKNRINNAFFLDQTLSEFLKIPSLAPMPDPSVPIIIFGVIFCIIVAI
LILSGWQRRRRKKEPSEVDADKCNMTIENGIPSDPLDMKGGHINDAFMTEDER
LTPL"

ORIGIN

Alignment Scores:
Pred. No.: 8,14e-113 Length: 1345
Score: 1089.00 Matches: 212
Percent Similarity: 99.53% Conservative: 0
Best Local Similarity: 99.53% Mismatches: 0
Query Match: 98.82% Indels: 1
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x AF229179 (1-1345)

Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 24 ATGTGTGGTCTCTCTTTTCTTGCTGCTCCATTCAGCTGAATCTGTCAACAGGT 83
Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 84 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 143
Qy 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 144 GCCTGGGATACCAATGAAGAATACTCTTCAAAGCGATGGTAGCTTTCTCCATGAGAAA 203
Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 204 GTTCCCAACAGAGACACAGAAATTTCCATGTCTACTTTGCAATGTAACCCAGAGG 263
Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 264 GTATCATCTCGTTTGTGGTTACAGACCCCTTCAAAAAATCACACCCCTTCTGCTGTTGAA 323
Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db 324 GTGCAATCAAGCCATAAGAATGAACAAGAACCGGATCAACAATGCCTTCTTTCTAAATGAC 383
Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal 140
Db 384 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCCACCCCATGAGCCATCTGG 443
Qy 141 ProIleTrpIleIlePheGlyValIlePheCysValIleIleValAlaIleAlaLeu 160

Db	444	CCCATCTGGATTATTATATTGGTGTGATATTTTGCATCATCATAGTTGCAATTGCACTA	503
Qy	161	Leu1leuLeuSerGly1le1TrpGlnAqArqArqGlyeAsnlyvsGluProSerGluValasp	180
Db	504	CTGATTTTATCAGGGATCTGCGACGTAGAGAAGAAAGAACAGAACCATCTGAAGTGGAT	563
Qy	181	AspAlaGluAspLyvsCysGluAsnMetIleThrIleGluAsnGly1leProSerAspPro	200
Db	564	GAGCGCTGAAGATAAGTGTGAAACATGATCACAATTGAAATGGCATCCCTCTGATCCC	623
Qy	201	LeuAspMetLyvsGly-Gly1leLeuMetMetProSer	212
Db	624	CTGGACATGAAGGAGGCGCATATTAAATGATGCGCTTCA	660
RESULT 7			
AX083392			
LOCUS	AX083392	Sequence 84 from Patent WO0112660.	1347 bp DNA linear PAT 28-FEB-2001
DEFINITION	AX083392		
ACCESSION	AX083392.1	GI:13185232	
VERSION			
KEYWORDS			
SOURCE		Homo sapiens (human)	
ORGANISM		Homo sapiens	
REFERENCE		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
AUTHORS		1. Kato, S. and Kimura, T.	
TITLE		Human proteins having hydrophobic domains and dnas encoding these proteins	
JOURNAL		Patent: WO 0112660-A 84 22-FEB-2001; SAGAMI CHEMICAL RESEARCH CENTER (JP) ; Protegene Inc. (JP)	
FEATURES		Location/Qualifiers	
source		1..1347	
		/organism="Homo sapiens"	
		/mol_type="unassigned DNA"	
		/db_xref="taxon:9606"	
		26..694	
		/notes="unnamed protein product"	
		/codon_start=1	
		/protein_id="CAC33295.1"	
		/db_xref="GI:13185233"	
		/db_xref="RENTREMBL:CAC33295"	
		/translation="MLMLFLPLVTAIHAELCPQGAENAFKVRLSIRLTALGDKAYAMDT NREYLPFKAMVAFSMRKVPRBATEISHVLNCNVTVQVSFWVTPDPSKNHTLPAAVEVO SALEKNQKRNNAFLNDOTLEFLKIPSTLAPMDPSVPIWIIIGVIFCIIIVAIAL LILSGIWQRNRKNKPFSDVDDADKCNENIITIENGIPSPDLNKGKHINDAFWTEDER LTPL"	
CDS			
		Length: 1347	
		Matches: 212	
		Conservative: 0	
		Mismatches: 0	
		Indels: 1	
		Gaps: 0	
US-09-989-724-387 (1-212) x AX083392 (1-1347)			
Qy	1	MetLeuTrpLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly	20
Db	26	ATGTTGTGGCTGCTCTTTTCTGGTGACTGCGCATTCATGCTGNACTCTGTCAACCAAGT	85
Qy	21	AlaGluAsnAlaPheLyvsValArgLeuSerIleArgThrAlaLeuGlyAspLyvalaTyr	40
Db	86	GCAGAAATAGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT	145
Qy	41	AlaTrpAspThrAsnGluGluTrpLeuPheLyvsAlaMetValAlaPheSerMetArgLyvs	60
Db	146	GCTTGGGATACCAATGAAGATACCTCTTCAAAGCGATGGTAGCTTCTTCATGAGAAA	205
Qy	61	ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg	80

Db 206 GTTCCACAGAGACAGAAATTTCCCATGCTCTACTTTGCATGTAAACCCAGAGG 265
 QY 81 ValSerPheTrpPheValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 Db 266 GTATCATCTGGTTTGTGTGATACAGACCCCTTCAAAAAATCACACCCCTCTCTGCTGTGAG 325
 QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAlaPhePheLeuAsnAsp 120
 Db 326 GTGCAATCAGCCATAGAAATGAACAGAACCGGATCAACATGCTCTTCTTCTAAATGAC 385
 QY 121 GlnThrLeuGluPheLeuLysValleProSerThrLeuAlaProMetAspProSerVal 140
 Db 386 CAACATCTGGAAATTTTAAATATCCCTTCCACACTTGCACCCACCCATGACCATCTGTG 445
 QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
 Db 446 CCCATCTGGATTAATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATGACATA 505
 QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
 Db 506 CTGATTTTATCAGGATCTGGCAACGCTAGAGAAAGAACAAAGAACCATCTGAAGTGGAT 565
 QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 Db 566 GAGCGTGAAGATGAAGTGTGAACATGATCATCATGTAATGAAATGGCATCCCTCTGATCCC 625
 QY 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
 Db 626 CTGGACATCAGGAGGCGCATATTAATGATGCGCTTCA 662

RESULT 8

BC050606

LOCUS

DEFINITION Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone
 MGC:60059 IMAGS:5183554), complete cds.

ACCESSION

BC050606

VERSION

BC050606.1

KEYWORDS

MGC.

SOURCE

Homo sapiens

ORGANISM

REFERENCE

AUTHORS

Klausner, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
 Klausner, R.D., Collins, F.S., Wagner, L., Shennan, C.M., Schuler, G.D.,
 Altschul, S.P., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
 Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, P.,
 Diachenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
 Stapleton, M., Soares, M.B., Donald, M.F., Casavant, T.L.,
 Schetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
 Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
 Abramson, R.D., Mullaly, S.J., Bosak, S.A., McSwan, P.J.,
 McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
 Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
 Villalón, D.K., Murny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
 Fahy, J., Helton, E., Kettman, M., Madan, A., Rodrigues, S.,
 Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
 Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
 Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
 Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smalls, D.E.,
 Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
 Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences
 Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

JOURNAL

MEDLINE

22388257

PUBMED

12477932

REFERENCE

AUTHORS

TITLE

Direct Submission

JOURNAL

Submitted (08-APR-2003)

National Institutes of Health, Mammalian

Gene Collection (MGC), Cancer Genomics Office, National Cancer

Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,

Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,

USA

NIH-MGC Project URL: <http://mgc.nci.nih.gov>

Contact: MGC help desk

Email: cgabbs-remail.nih.gov

Tissue Procurement: Life Technologies, Inc.

cDNA Library Preparation: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Sequencing Group at the Stanford Human Genome

Center, Stanford University School of Medicine, Stanford, CA 94305

Web site: <http://www-shgc.stanford.edu>

Contact: (Dickson, Mark) mcdpaxil.stanford.edu

Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,

R. M.

Clone distribution: MGC clone distribution information can be found

through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Series: IRAK PM: 110 Row: c Column: 4

This clone was selected for full length sequencing because it

passed the following selection criteria: matched mRNA gi: 21361864.

Location/Qualifiers

1. .1377

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="MGC:60059 IMAGS:5183554"

/tissue_type="Colon, Kidney, Stomach, adult, whole pooled"

/clone_lib="NIH MGC_116"

/lab_host="DH10B"

/note="Vector: pCMV-SPORT6"

1. .1377

/gene="NK17"

/note="synonym: NK-17"

/db_xref="LocusID:57393"

9. .677

/codon_start=1

/product="kidney-specific membrane protein"

/protein_id="AAH50606.1"

/db_xref="GI:30047081"

/db_xref="LocusID:57393"

/translation="MLWLLFFLVTAIHAELCPGAENAFKRLISITLGLDKAYANDT

NEEYLFKAMVAFMRKVPNREATEISHVLLCNVQVRFVFWVYDPSKNTLPAVEVQ

SAIRNMKNRINNAFLNDQTLBFLKIPSLAPPMDPSVPIWIIIPGVFCIIIVATL

LTLGLWQRNRKKEPSEYDDAEDKCNMTIENGIPSPDLMDKGGHINDAFMTEDR

LTP1"

Alignment Scores:

Pred. No.: 8,37e-113

Score: 1089.00

Percent Similarity: 99.53%

Best Local Similarity: 99.53%

Query Match: 98.82%

DB: 9

US-09-989-724-387 (1-212) x BC050606 (1-1377)

QY 1 MetLeuTrpLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20

Db 9 ATGTTGTGGCTGCTCTCTTTCTTGGTGACTGCCATTCATGCTGTAACCCAGGT 68

QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40

Db 69 GCGAANAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAAGCATAT 128

QY 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60

Db 129 GCCTGGGATACCAATGAAGAAATACCTCTTCAAAGCGATGCTAGCTTCTCCATGAGAAA 188

QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysGlnThrGlnArg 80

Db 189 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGCTCTTGTGCAATGTAACCCAGAGG 248

QY 81 ValSerPheTrpPheValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100

Db 249 GTATCATCTCTGGTTGTGGTTTACAGACCCCTTCAAAATAATCAACCCCTTCTGCTGTGAG 308
 Qy 101 ValGlnSerAlaIleAtrMetAsnLysAsnArgLysAsnAlaPhePheLeuAsnAsp 120
 Db 309 GTGCATCTCGCATAGATGACACAGAACCGATCAACATGCTTCTTCTTAATGAC 368
 Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
 Db 369 CAATCTCTGGAATTTTAAAAATCCCTTCCACACCTTGCACCAACCCATGACCCATCTGTG 428
 Qy 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
 Db 429 CCACTCTGGATTTATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATGCACTA 488
 Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
 Db 489 CTGATTTTATCAGGAUTGCAAGCTAGAGAGAAAGAACCAACCATCTGAGTGGAT 548
 Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 Db 549 GACGCTGAAGATAAGTGTGAACATGATCATCAATTGAATGCAATCCCTCTGATCCC 608
 Qy 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
 Db 609 CTGGACATCAAGAGGGGAGGCATATTAATGATGCTTCA 645

RESULT 9
 LOCUS BC015099 1440 bp mRNA linear PRI 04-OCT-2003
 DEFINITION Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone
 HGC:22827 IMAGE:3829035), complete cds.
 ACCESSION BC015099
 VERSION BC015099.1 GI:15929328
 KEYWORDS MGC.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 1440)
 Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,
 Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,
 Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
 Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F.,
 Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
 Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
 Schetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S.,
 Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J.,
 Abramson,R.D., Mullahy,S.J., Bosak,S.A., McSwan,P.J.,
 McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S.,
 Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W.,
 Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,
 Fahey,J., Helton,E., Kettman,M., Madan,A., Rodriguez,S.,
 Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,
 Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,B.D.,
 Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,
 Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smalil,D.E.,
 Schnerch,A., Schein,J.B., Jones,S.J. and Marra,M.A.
 Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences
 Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
 22388257
 MEDLINE 12477932
 PUBMED 2 (bases 1 to 1440)
 REFERENCE Strausberg,R.
 DIRECT SUBMISSION
 TITLE Submitted (01-OCT-2001) National Institutes of Health, Mammalian
 JOURNAL Gene Collection (MGC), Cancer Genomics Office, National Cancer
 INSTITUTE, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA
 REMARK NIH-MGC Project URL: <http://mgc.nci.nih.gov>
 COMMENT Contact: MGC help desk
 Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC
 CDNA Library Preparation: CLONTECH Laboratories, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLML)
 DNA Sequencing by: Institute for Systems Biology
<http://www.systemsbio.org>
 contact: amadan@systemsbio.org
 Anup Madan, Jessica Fahey, Erin Helton, Mark Kettman, Anuradha
 Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
 Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLML at: <http://image.llnl.gov>
 Series: IRAL Plate: 31 Row: d Column: 11.
 Location/Qualifiers
 1..1440
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="MGC:22827 IMAGE:3829035"
 /tissue_type="Kidney, hypernephroma"
 /clone_lib="NIH MGC_58"
 /lab_host="DH10B"
 /note="Vector: pDNR-LIB"
 1..1440
 /gene="NXL17"
 /note="synonym: NX-17"
 /db_xref="LocusID:57393"
 89..757
 /codon_start=1
 /product="kidney-specific membrane protein"
 /protein_id="AAH15099.1"
 /db_xref="GI:15929328"
 /db_xref="LocusID:57393"
 /translation="MLLLPLVTAIHAELQPCGAENAFKVRSLRTALDKAYAMD
 NEEYLPKAWAPSRKPKNREARTRISVLLCNVTORVSFVVTDPSPKNTLPAVSQ
 SAIRMKRNINNAFLNDQLEPLKIPSTLAPHPDPSVPIWIIIGVIFCIIVALL
 LLSGIWQRRRNKPESEVDAEDKCNITTIENGIPSDPLDMKGGHINDAFMTEDR
 LITPL"
 ORIGIN
 Alignment Scores:
 Pred. No.: 8,84e-113 Length: 1440
 Score: 1089.00 Matches: 212
 Percent Similarity: 99.53% Conservative: 0
 Best Local Similarity: 99.53% Mismatches: 0
 Query Match: 98.82% Indels: 1
 DB: 9 Gaps: 0
 US-09-989-724-387 (1-212) x BC015099 (1-1440)
 Qy 1 MetLeuTrpLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
 Db 89 ATGTTGTGGTCTCTTTTCTGCTGACTGCCATTCTGCTGAATCTGTCAACCGGT 148
 Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
 Db 149 GCAGAAAATGCTTTTAAAGTGAGACTTAGTAGTATCAGAACAGCTCTGGAGATAAGCATAT 208
 Qy 41 AlaTrpAspThrAsnGluGluTrpLeuPheLysAlaMetValAlaPheSerMetArgLys 60
 Db 209 GCCTGGGATCAATGAAGAAATACCTCTCAAGCGATGGTAGCTTCTCCATGAGAAA 268
 Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
 Db 269 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGTCTTACTTTGCAATGTAACCCAGAGG 328
 Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 Db 329 GTATCATCTCTGGTTGTGGTTTACAGACCCCTTCAAAAAATCAGACCCCTTCTCTGTTGAG 388
 Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgLysAsnAlaPhePheLeuAsnAsp 120
 Db 389 GTGCAATCAGCCATAAGAAATGAACAAGAACCGGATCAACATGCTCTTCTTAATGAC 448

FEATURES
 source

QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
 Db 449 CAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCACCCATGCTGTG 508
 QY 141 ProfileTpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
 Db 509 CCATCTGGATTTATATTGGGTGATATTTCATCATCATAGTTGCAATTCACATA 568
 QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
 Db 569 CTGATTTTATCAGGATCTGGCAACCTAGAGAGAGAGAGAGAGAGAGAGAGAG 628
 QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 Db 629 GACGCTGAAGATAAGTGTGAAGACATGATCAATTTGAATGGATCCCTCTGATCC 688
 QY 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
 Db 689 CTGGACATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 725

RESULT 10
 BC014317
 LOCUS
 DEFINITION Homo sapiens kidney-specific membrane protein, mRNA (cDNA clone MGC:22707 IMAGE:4048217), complete cds.
 ACCESSION BC014317
 VERSION BC014317.1 GI:15680012
 KEYWORDS MGC.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE
 AUTHORS
 BUKARYOTA; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 1 (bases 1 to 1605)
 Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,P.S., Wagner,K.H., Shenmen,C.M., Schuler,G.D., Altschul,S.P., Zeeberg,B., Buetow,K.H., Schaefer,C.P., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,P., Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L., Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S., Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J., Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J., McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Rulyk,S.W., Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahey,J., Helton,E., Kettman,M., Madan,A., Rodrigues,S., Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y., Bonfard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D., Dickinson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M., Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smalhus,D.E., Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
 Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
 Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
 22398257
 12477932
 2 (bases 1 to 1605)
 Strausberg,R.
 Direct Submission
 Submitted (17-SEP-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
 NIH-MGC Project URL: <http://mgc.nci.nih.gov>
 Contact: MGC help desk
 Email: cgapbs-re@mail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: CLONTECH Laboratories, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILML)
 DNA Sequencing by: Institute for Systems Biology
<http://www.systemsbio.org>
 contact: anand@systemsbio.org
 Anup Madan, Jessica Fahey, Erin Helton, Mark Kettman, Anuradha

Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILML at: <http://image.llnl.gov>
 Series: IRAL plate: 31 Row: n Column: 3.
 Location/Qualifiers
 1..1605
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="MGC:22707 IMAGE:4048217"
 /tissue_type="Bone marrow, chronic myelogenous leukemia"
 /clone_lib="NIH_MGC_54"
 /lab_host="DH10B"
 /note="Vector: pDNR-LIB"
 1..1605
 /gene="NK17"
 /note="synonym: NK-17"
 /db_xref="locusID:57393"
 261..929
 /codon_start=1
 /product="kidney-specific membrane protein"
 /protein_id="AAH14317.1"
 /db_xref="GI:15680013"
 /db_xref="locusID:57393"
 /translation="MLLLFLVTAIHAELCPGAENAFKVLISINTALGDKAYADWT
 NEELYFKAMVAFSMRKVPNRKATEISHVLLCNVTQVSFWVTFDSKHTLPAVEQ
 SAIRNNKINNAFLNDQLEKIPSTAPMPDPSVPIWIIIGVIFCIIVAIAL
 LILSGIMQRRRRKNKPSVDDAEDKCNMTIENGIPSDPLDKMGKHINDAPMTEDER
 LTPL"

ORIGIN
 Alignment Scores:
 Pred. No.: 1 01e-112 Length: 1605
 Score: 1089.00 Matches: 212
 Percent Similarity: 99.53% Conservative: 0
 Best Local Similarity: 99.53% Mismatches: 0
 Query Match: 98.82% Indels: 1
 DB: 9 Gaps: 0
 US-09-989-724-387 (1-212) x BC014317 (1-1605)
 QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
 Db 261 ATGTTGTGGCTGCTCTTTTCTGGTACTGTCATTCATGCTGCAACAGGT 320
 QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
 Db 321 GCAGAAATGCTTTTAAGTGAGACTTAGTATCAGACAGCTCTGGAGATAAGCATAT 380
 QY 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
 Db 381 GCCTGGGATACCAATGAAGATACCTCTTCAAGGCGATGCTAGCTTTCTCATGAGAAA 440
 QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
 Db 441 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACCCAGAG 500
 QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 Db 501 GTATCATCTGTGTTGTGGTTACAGACCTTCACAAAAATCACACCTTCTCTGCTGTGAG 560
 QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
 Db 561 GTGCAATCAGCCATAAGATGAACAGAACCGGATCAACAATGCTCTTCTTCTAAATGAC 620
 QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
 Db 621 CAAACTCTGGAATTTTAAATCCCTTCCACACTTGCACCCACCCATGCTGTG 680
 QY 141 ProfileTpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
 Db 681 CCATCTGGATTTATATTGGGTGATATTTCATCATCATAGTTGCAATTCACATA 740

```

QY 161 LeuileLeuSerGlyIleTropGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
DB 741 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAACAAAGAACCAATCTGAAGTGGAT 800
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 801 GACGCTGAAGATAAGTGTGAACACATGATCAATTTGAATGGCATCCCTCTCATGCC 860
QY 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
DB 861 CTGGACATGAAGGAGGCGATATTATGATGCTTCA 897

RESULT 11
LOCUS BD083420
DEFINITION Secreted proteins and polynucleotides encoding them.
ACCESSION BD083420
VERSION BD083420.1 GI:22629030
KEYWORDS JP 2001523950-A/2.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 1401)
AUTHORS Jacobs,K., McCoy,J.M., Lavallie,E.R., Racie,L.A., Merberg,D.,
Treacy,M., Spaulding,V. and Agostino,M.J.
TITLE Secreted proteins and polynucleotides encoding them
JOURNAL Patent: JP 2001523950-A 2 27-NOV-2001;
GENETICS INSTITUTE INC
COMMENT PN JP 2001523950-A/2
PD 27-NOV-2001
PF 23-JAN-1998 JP 1998532177
PR 24-JAN-1997 US 08/788789
PI KENNETH JACOBS, JOHN M MCCOY, EDWARD R LAVALLIE, LISA A RACIE, PI
DAVID MERBERG
PI MAURICE TREACY, VIKKI SPAULDING, MICHAEL J AGOSTINO PC
C12N15/12, C12N5/10, C07K14/47, C12Q1/68, A61K38/17 CC Strandedness:
Double:
CC Topology: Linear;
FH Key Location/Qualifiers.
FEATURES
source 1..1401
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

ORIGIN
Alignment Scores:
Pred. No.: 1.86e-112 Length: 1401
Score: 1086.00 Matches: 211
Percent Similarity: 99.53% Conservative: 1
Best Local Similarity: 99.06% Mismatches: 0
Query Match: 98.55% Indels: 1
DB: 6 Gaps: 0

US-09-989-724-387 (1-212) x BD083420 (1-1401)

QY 1 MetLeuTrpLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 71 ATGTGTGGCTGCTCTTTTCTGTGACTGCCATTCATGCTGAATCTGTCAACCAAGT 130
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 131 GCAGAAATGCTTTTAAAGTCAGACTTAGTATCAGACAGCTCTGGGAGATAAAGCATAT 190
QY 41 AlaTrpAspThrAsnGluGluTyrIleuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 191 GCCTGGGATACCAATGAGAAATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA 250
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 251 GTTCCCAACAGAGAACCAAGAAATTTCCCATGTCTTACTTTGCAATGTAAACCCAGAGG 310

```

```

QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 311 GTATCATTTCTGTTTGTGTTTACAGACCTTCAAAAAATCACACCTTCTGCTGTTGAG 370
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 371 GTGCAATCAGCCATTAAGATGAACCAAGAACCGGATCAACAATGCCCTTCTTTGTAAATGAC 430
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 431 CAAACTCTGGAATTTTAAATATCCCTTCCACACTTGCACCACTGACCATCTGTG 490
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 491 CCCATCTGGATTTATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACCTA 550
QY 161 LeuIleLeuSerGlyIleTropGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
DB 551 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAACAAAGAACCAATCTGAAGTGGAT 610
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 611 GACGCTGAAGATAAGTGTGAACACATGATCACAATTTGAATGGCATCCCTCTCATGCC 670
QY 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
DB 671 CTGGACATGAAGGAGGCGATATTATGATGCTTCA 707

RESULT 12
LOCUS BD205644
DEFINITION 97 human secreted proteins.
ACCESSION BD205644
VERSION BD205644.1 GI:33015414
KEYWORDS JP 2002533058-A/21.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 1447)
AUTHORS Ruben,S.M., Florence,K., Ni,J., Rosen,C.A., Carter,K.C.,
Moore,P.A., Olsen,H.S., Shi,Y., Young,P.E., Wei,P.F., Brewer,L.A.,
Soppet,D.R., Lafleur,D.W., Endress,G.A. and Ebner,R.
TITLE 97 human secreted proteins
JOURNAL Patent: JP 2002533058-A 21 08-OCT-2002;
HUMAN GENOME SCIENCES INC
COMMENT OS Homo sapiens (human)
PN JP 2002533058-A/21
PD 08-OCT-2002
PF 06-MAY-1999 JP 2000548451
PR 12-MAY-1998 US 60/085093,12-MAY-1998 US 60/085094 PR
12-MAY-1998 US 60/085105,12-MAY-1998 US 60/085180 PR
18-MAY-1998 US 60/085927,18-MAY-1998 US 60/085906 PR
18-MAY-1998 US 60/085924,18-MAY-1998 US 60/085922 PR
18-MAY-1998 US 60/085923,18-MAY-1998 US 60/085921 PR
18-MAY-1998 US 60/085925,18-MAY-1998 US 60/085928 PR
18-MAY-1998 US 60/085920
PI STEVEN M RUBEN, KIMBERLY FLORENCE, JIAN NI, CRAIG A ROSEN, KENNETH
C CARTER,
PI PAUL A MOORE, HENRIK S OLSEN, YANGGU SHI, PAUL B YOUNG, PING FEI
PI WEI,
PI LAURIE A BREWER, DANIEL R SOPPET, DAVID W LAFLEUR, GREGORY A PI
ENDRESS,
PI REINHARD EBNER
PC C12N15/09, C07K14/00, C07K14/435, C07K16/18, C12N1/15, C12N1/19, PC
C12N1/21,
PC C12N5/10, C12P21/02, C12N15/00, C12N5/00
CC 97 human secreted proteins.
FH Key Location/Qualifiers
FT source 1..1447
/organism="Homo sapiens (human)"
FT Location/Qualifiers

FEATURES

```


AUTHORS Edwards, J. B. D. M., Duclert, A. and Lacroix, B.
TITLE 5' ESTs for secreted proteins expressed in various tissues
JOURNAL Patent: JP 2002525024-A 22 13-AUG-2002;
GENSET
COMMENT OS Homo sapiens (human)
PN JP 2002525024-A/22
PD 13-AUG-2002
PP 31-JUL-1998 JP 2000505294
PR 01-AUG-1997 US 08/905051
PI JEAN BAPTISTE DUMAS MILNE EDWARDS, AYMERIC DUCLERT, BRUNO PI
LACROIX
PC C12N15/09, C12N15/09, C07K14/47, C12M1/00, C12P21/02, C12N15/00, PC
C12N15/00
CC Von Heijne matrix
CC score 10.7
CC seq LMLFFLVTAIHA/EL
FH Key Location/Qualifiers
FT sig_peptide 32..73.
FEATURES
source 1..848
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
ORIGIN
Alignment Scores:
Pred. No.: 3,05e-110 Length: 848
Score: 1064.00 Matches: 208
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 4
Query Match: 96.55% Indels: 1
DB: 6 Gaps: 0
US-09-989-724-387 (1-212) x BD247957 (1-848)
QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 32 ATGTTGTGGCTCTCTTTTCTGGTGACTGCGCAATTCATGCTGAATCTGTCAACGAGT 91
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 92 CGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGACAGCTCTGGAGATAAGCATAT 151
QY 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 152 GCCTGGATACCAATCAGATATACCTCTTCAAAGCGATGCTAGCTTTCTCCATGAGAAA 211
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 212 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAGG 271
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 272 GTATCATCTGTTGTGGTTGATACAGCCCTTCAAAAATCACACCTTCTGCTGTGAG 331
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 332 GTGCAATCAGCCATAAGATGAACAGAACCCGATCAACATGCTCTTCTTAATGAC 391
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 392 CAACCTCTGGAAATTTTAAATAATCCCTTCCACACTTGCACACCCATCGACCTCTGTG 451
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 452 CCACCTGGATTAATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACATA 511
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
DB 512 CTGATTTTATCAGGATCTGGCAACGTAADAAAGAACAAAGAACCATCTCAAGTGGAT 571
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200

DB 572 GAGCGTGARATAAKTGTGAAACATGATCACAAATGGAATGGATCCCTCTGTATCCC 631
QY 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
DB 632 CTGGACATGAGGAGGCGCATATTAATGATGCTTCA 668
RESULT 15
AR340701
LOCUS AR340701
DEFINITION Sequence 27 from patent US 6573068.
ACCESSION AR340701
VERSION AR340701.1 GI:33732443
KEYWORDS linear
SOURCE PAT 17-AUG-2003
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 848)
AUTHORS Milne Edwards, J.-B.D., Duclert, A. and Bougueleret, L.
TITLE Claudin-50 protein
JOURNAL Patent: US 6573068-A 27 03-JUN-2003;
FEATURES Location/Qualifiers
source 1..848
/organism="unknown"
/mol_type="genomic DNA"
ORIGIN
Alignment Scores:
Pred. No.: 3,05e-110 Length: 848
Score: 1064.00 Matches: 208
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 4
Query Match: 96.55% Indels: 1
DB: 6 Gaps: 0
US-09-989-724-387 (1-212) x AR340701 (1-848)
QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 32 ATGTTGTGGCTCTCTTTTCTGGTGACTGCGCAATTCATGCTGAATCTGTCAACGAGT 91
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 92 CGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGACAGCTCTGGAGATAAGCATAT 151
QY 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 152 GCCTGGATACCAATCAGATATACCTCTTCAAAGCGATGCTAGCTTTCTCCATGAGAAA 211
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 212 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAGG 271
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 272 GTATCATCTGTTGTGGTTGATACAGCCCTTCAAAAATCACACCTTCTGCTGTGAG 331
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 332 GTGCAATCAGCCATAAGATGAACAGAACCCGATCAACATGCTCTTCTTAATGAC 391
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 392 CAACCTCTGGAAATTTTAAATAATCCCTTCCACACTTGCACACCCATCGACCTCTGTG 451
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 452 CCACCTGGATTAATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACATA 511
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
DB 512 CTGATTTTATCAGGATCTGGCAACGTAADAAAGAACAAAGAACCATCTCAAGTGGAT 571
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200

Db	572	GACGCTGAATATAAATGTTGTAACATGATCAGATTGAAATGGCATCCCTCTGATCCC	631
Qy	201	LeuAspMetLysGly-GlyIleLeuMetMetProSer	212
Db	632	CTGGACATGAAGGAGGGCATATTAAATGATGCCTTCA	668

Search completed: April 4, 2004, 03:09:42
Job time : 3777 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: April 3, 2004, 23:29:14 ; Search time 460 Seconds
(without alignments)
1957.865 Million cell updates/sec

Title: US-09-989-724-387

Perfect score: 1102
Sequence: 1 MLWLLPLVTAIHAELCPG.....ENGIPSPDLKMGKILMMP 212

Scoring table:

BLOSUM62	
Xgapop 10.0 , Xgapext 0.5	
Ygapop 10.0 , Ygapext 0.5	
Fgapop 6.0 , Fgapext 7.0	
Delop 6.0 , Delext 7.0	

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO_spool/US09989724/runat_31032004_081140_13280/app_query.fasta_1.391
-DB=N Geneseq 29Jan04 -OPMT=fastcap -SUFFIX=ring -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09989724 @CGN 1 1 470 @runat_31032004_081140_13280 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : N Geneseq 29Jan04:*

1:	Geneseqn1980s:*
2:	Geneseqn1990s:*
3:	Geneseqn2000s:*
4:	Geneseqn2001as:*
5:	Geneseqn2001bs:*
6:	Geneseqn2002s:*
7:	Geneseqn2003as:*
8:	Geneseqn2003bs:*
9:	Geneseqn2003cs:*
10:	Geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1102	100.0	1346	3	Aaz65097 Membrane-
2	1102	100.0	1346	3	Aac58612 Human PRO
3	1102	100.0	1346	3	Aaa77680 Human PRO
4	1102	100.0	1346	4	Aas21484 Human CDN
5	1102	100.0	1346	5	Aaf44243 Human PRO
6	1102	100.0	1346	7	Abx77959 Human PRO
7	1102	100.0	1346	7	Abx80371 Novel hum
8	1102	100.0	1346	7	ACA69277 Human CDN

9	1102	100.0	1346	7	ACD24093	Acid24093 Novel hum
10	1102	100.0	1346	7	ABX90348	Abx90348 Human sec
11	1102	100.0	1346	7	ABX64194	Abx64194 cDNA enco
12	1102	100.0	1346	7	ACA67234	Acad67234 cDNA enco
13	1102	100.0	1346	7	ACA64416	Acad64416 Novel hum
14	1102	100.0	1346	7	ACA03843	Acad03843 cDNA enco
15	1102	100.0	1346	7	ABX89381	Abx89381 DNA enco
16	1102	100.0	1346	7	ABX80875	Abx80875 Human sec
17	1102	100.0	1346	7	ACD44384	Acad44384 cDNA enco
18	1102	100.0	1346	7	ACD42035	Acad42035 Human sec
19	1102	100.0	1346	7	ABX79555	Abx79555 Human sec
20	1102	100.0	1346	7	ACA93576	Acad93576 Novel hum
21	1102	100.0	1346	7	ABX81258	Abx81258 Novel hum
22	1102	100.0	1346	7	ACA04264	Acad04264 Human CDN
23	1102	100.0	1346	7	ACA93074	Acad93074 Novel hum
24	1102	100.0	1346	7	ABX17158	Abx17158 Human PRO
25	1102	100.0	1346	8	ACA68013	Acad68013 Novel hum
26	1102	100.0	1346	8	ACA88462	Acad88462 Human sec
27	1102	100.0	1346	8	ACD81969	Acad81969 cDNA enco
28	1102	100.0	1346	8	ADA46000	Ada46000 Novel hum
29	1102	100.0	1346	8	ADA76431	Ada76431 Human PRO
30	1102	100.0	1346	8	ADA19081	Ada19081 Human PRO
31	1102	100.0	1346	8	ADA61704	Ada61704 Homo sapi
32	1102	100.0	1346	8	ADB19489	Adb19489 Novel hum
33	1102	100.0	1346	8	ADB28030	Adb28030 cDNA enco
34	1102	100.0	1346	8	ADA86509	Ada86509 Novel hum
35	1102	100.0	1346	8	ADB16073	Adb16073 Human PRO
36	1102	100.0	1346	8	ADA37897	Ada37897 Human CDN
37	1102	100.0	1346	8	ADA47859	Ada47859 Human PRO
38	1102	100.0	1346	8	ADA21583	Ada21583 Human CDN
39	1102	100.0	1346	8	ADA10370	Ada10370 Human CDN
40	1102	100.0	1346	8	ADA67654	Ada67654 Human PRO
41	1102	100.0	1346	8	ADB30661	Adb30661 cDNA enco
42	1102	100.0	1346	8	ADA85957	Ada85957 Novel hum
43	1102	100.0	1346	8	ADA17914	Ada17914 cDNA enco
44	1102	100.0	1346	8	ADA97169	Ada97169 Human PRO
45	1102	100.0	1346	8	ADA79473	Ada79473 Human PRO

ALIGNMENTS

RESULT 1	AAZ65097
ID	AAZ65097 standard; cDNA; 1346 BP.
XX	
AC	AAZ65097;
XX	
DT	05-APR-2000 (first entry)
XX	
DE	Membrane-bound protein PRO1312 encoding cDNA.
XX	
KW	Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
KW	pharmaceutical; receptor immunoadhesin; gene mapping; ss.
XX	
OS	Homo sapiens.
XX	
PN	WO9963088-A2.
XX	
PD	09-DEC-1999.
XX	
PF	02-JUN-1999; 99WO-US012252.
XX	
PR	02-JUN-1998; 98US-0087607P.
PR	02-JUN-1998; 98US-0087609P.
PR	02-JUN-1998; 98US-0087759P.
PR	03-JUN-1998; 98US-0087827P.
PR	03-JUN-1998; 98US-0088021P.
PR	04-JUN-1998; 98US-0088025P.
PR	04-JUN-1998; 98US-0088028P.
PR	04-JUN-1998; 98US-0088029P.
PR	04-JUN-1998; 98US-0088030P.
PR	04-JUN-1998; 98US-0088033P.
PR	04-JUN-1998; 98US-0088326P.

PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus.
XX Claim 23; Fig 67; 309pp; English.

XX The present invention describes sixty four human PRO proteins which can
CC be used in the treatment of immune related diseases. The human PRO
CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
CC treating and diagnosing immune related disorders. The disorders are
CC selected from systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal disease, demyelinating diseases of the central and
CC peripheral nervous systems, hepatobiliary diseases, inflammatory bowel
CC disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune
CC or immune-mediated skin diseases, allergic diseases, immunological
CC diseases of the lung, and transplantation associated diseases including
CC graft rejection and graft-versus-host-disease. AAC58397 to AAC58578
CC represent PCR primers and hybridisation probes used in the isolation of
CC human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477
CC represent human PRO polynucleotide and protein sequences given in the
CC exemplification of the present invention

XX SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.: 1.26e-123 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 3 Gaps: 0

US-09-989-724-387 (1-212) x AAC58612 (1-1346)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 7 ATGTTGTGGCTGCTCTTTTCTGGTGACTGCGCTTCATCTGCTGAACTCTGCAACAGGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 67 GCGAANAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 126
QY 41 AlaTrpAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 127 GCTGGGATACCAATGCAAGATACCTCTTCAAGGATGCTAGCTTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 187 GTTCCCAACAGAGAGACAGAGAAATTTCCCATGTCTTCTTGCATGTAAACCCAGAG 246
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 247 GTATCAATCTGGTTGTGGTTACAGACCTTCAAAAATATCACACCTTCTGCTGTGAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 307 GTGCAATCAGCCATAGATGATGACAGACAGACCGGATCAACATGCTTCTTCTTAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 367 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGCACCCACCCATGGACCCATCTGTG 426
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
DB 427 CCATCTCGATATTATATTGTTGGTGATATTGTCATCATCATGTTCAATGTCACAT 486
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
DB 487 CTGATTTTATCAGGATCTGGCAACCTAGAGAGAAAGAACCAACCATCTGAATGGAT 546

QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 547 GACGCTGAAGATAAGTGTGAAACATGATCAATTTGAAATGGCATCCCTCTGATCCC 606
QY 201 LeuAspMetLysGlyGlyIleLeuMetProSer 212
DB 607 CTGGACATGAGGGGGGCGCATATTATGATGCTTCA 642

RESULT 3

AAA77680
ID AAA77680 standard; cDNA; 1346 BP.

XX AAA77680;

DT 07-NOV-2000 (first entry)

XX Human PRO1312 cDNA sequence SEQ ID NO:213.

XX Human; PRO; promotion; inhibition; angiogenesis; cardiovascularisation;
KW diagnosis; trauma; wound; cancer; atherosclerosis; cardiac hypertrophy;
KW angiogenic; proliferative; cardiant; cardiovascular; antiatherosclerotic;
KW cytostatic; gene therapy; vaccine; ss.

XX Homo sapiens.

XX WO200032221-A2.

XX 08-JUN-2000.

XX 30-NOV-1999; 99WO-US028313.

XX 01-DEC-1998; 98WO-US025108.

XX 16-DEC-1998; 98US-0112850P.

XX 12-JAN-1999; 99US-0115554P.

XX 08-MAR-1999; 99WO-US005028.

XX 12-MAR-1999; 99US-0123957P.

XX 28-APR-1999; 99US-0131445P.

XX 14-MAY-1999; 99US-0134287P.

XX 02-JUN-1999; 99WO-US012252.

XX 23-JUN-1999; 99US-0141037P.

XX 20-JUL-1999; 99US-0144758P.

XX 26-JUL-1999; 99WO-US020111.

XX 01-SEP-1999; 99WO-US0145698P.

XX 08-SEP-1999; 99WO-US020594.

XX 13-SEP-1999; 99WO-US020944.

XX 15-SEP-1999; 99WO-US021090.

XX 05-OCT-1999; 99WO-US021547.

XX 29-OCT-1999; 99WO-US023089.

XX 29-OCT-1999; 99US-0162506P.

XX (GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Hillan KJ;

PI Goddard A, Godowski PJ, Gurney AL, Klein RD, Kuo SS, Paoni NF;

PI Smith V, Watanabe CK, Williams PM, Wood WI;

XX WPI; 2000-412154/35.

XX P-PSDB; ABE24430.

XX Nucleic acids encoding PRO polypeptides useful for preventing, diagnosing

PT and treating diagnosing a cardiovascular, endothelial or angiogenic

PT disorders in mammals.

XX Claim 61; Fig 85; 315pp; English.

XX The present invention describes nucleic acids encoding PRO polypeptides

CC useful for preventing, diagnosing and treating diagnosing a

CC cardiovascular, endothelial or angiogenic disorder in mammals by

CC modulating cell proliferation, angiogenesis and cardiovascularisation,

CC and for identifying agonists and antagonists of these processes. The

CC nucleic acids and the proteins they encode may be used in the prevention,

CC treatment and diagnosis of diseases associated with inappropriate PRO

CC expression such as cardiovascular, endothelial or angiogenic disorders in

CC mammals (e.g. atherosclerosis, cancers and cardiac hypertrophy). For
 CC example, the nucleic acids (NCs) and vectors containing them and the PRO
 CC polypeptide may be used to treat disorders associated with decreased PRO
 CC expression. AAA77510 to AAA77721 and AAB24388 to AAB24435 represent
 CC nucleotide and protein sequences used in the exemplification of the
 CC present invention
 XX
 SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.: 1.26e-123 Length: 1346
 Score: 1102.00 Matches: 212
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 3 Gaps: 0

US-09-989-724-387 (1-212) x AAA77680 (1-1346)

Qy 1 MetLeuTLeuLeuPhePheValThrAlaIleHisAlaGluLeuCysGlnProGly 20
 Db 7 ATGTTGGCTGCTCTTTTCTGGTGACTGCTCATTCATGCTGAACTCTGTCACACCGGT 66
 Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
 Db 67 GCAGAAATGCTTTTAAATGAGACTTATGATCAGACGCTCTGGGAGATAAGCATAT 126
 Qy 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
 Db 127 GCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGGTAGCTTCTCCATCAGAAAA 186
 Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
 Db 187 GTTCCCAACAGAGAGCAACAGAAATTTCCCATGTCTTACTTGGCAATGTAAACCCAGAG 246
 Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 Db 247 GTATCATTTCTGGTTTGTGTTACAGACCTTCAAAAATATCACACCTTCTGCTGTGG 306
 Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
 Db 307 GTGCAATCAGCCATAGAATGAACAGAACCGGATCAACAATGCTTCTTCTAAATGAC 366
 Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
 Db 367 CAATCTCGGAATTTTAAAAATCCCTTCCACATTTGCACACCCATGACCCCATCTGTG 426
 Qy 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
 Db 427 CCCATCGGATATATATTTGGTGATATTTTGCATCATCATAGTTGCAATTTGCACATA 486
 Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
 Db 487 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACCAAGAACCATCTGTAAGTGAT 546
 Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 Db 547 GACCTCAGAGATAAGTGTGAATCATGATCATCAATTTGAATGCGATCCCTCTGATCCC 606
 Qy 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
 Db 607 CTGGACATGAAGGGGGGCGATATTAATGATGCTTCA 642

RESULT 4

AAS21484
 ID AAS21484 standard; cDNA; 1346 BP.

XX AAS21484;

XX 24-OCT-2001 (first entry)

XX Human cDNA sequence encoding for PRO1312 polypeptide.

XX

KW Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
 KW prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
 KW ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
 KW A-peptide; factor VIIA; gene therapy; ss.
 XX Homo sapiens.
 XX WO200140466-A2.
 XX 07-JUN-2001.
 XX 01-DEC-2000; 2000WO-US032678.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028564.
 PR 02-DEC-1999; 99WO-US028565.
 PR 09-DEC-1999; 99US-0170262P.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030999.
 PR 30-DEC-1999; 99WO-US031243.
 PR 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 18-FEB-2000; 2000WO-US004342.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 01-MAR-2000; 2000WO-US005601.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 03-MAR-2000; 2000US-0187202P.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 05-JUN-2000; 2000US-0209832P.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 10-NOV-2000; 2000WO-US030873.

(GETH) GENENTECH INC.

Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff B, Gao W;
 Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

WPI; 2001-408281/43.

P-PSDB; AAU12412.

Isolated, secretory and transmembrane PRO polypeptide used to detect
 other PRO polypeptides, link bioactive molecules to cells expressing PRO
 polypeptides, and detect the presence of mammalian tumors e.g. lung,
 breast, prostate, cervical.

Claim 3; Fig 481; 813pp; English.

AAS21244-AAS21518 encode for novel human secretory and transmembrane PRO
 polypeptides. The PRO polypeptides are useful to detect other PRO
 polypeptides, to link bioactive molecules to cells expressing PRO
 polypeptides, to modulate biological activities of cells expressing PRO

CC polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample. Some
CC of the 275 sequences are also useful to stimulate the release of tumour
CC necrosis factor- α (TNF- α) from human blood, the proliferation or
CC differentiation of chondrocytes, the proliferation or gene expression in
CC pericyte cells, the release of proteoglycans from cartilage, the
CC proliferation of inner ear utricular supporting cells or of T-
CC lymphocytes, the release of a cytokine from peripheral blood monocytes
CC (PBMCs), or the proliferation of endothelial cells. Some of the PRO
CC polypeptides may modulate glucose or free fatty acid uptake by skeletal
CC muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
CC VIIA. The PRO polypeptides can be used in assays to identify molecules
CC involved in binding interactions. The polynucleotides encoding PRO
CC polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.: 1,266-123 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-09-989-724-387 (1-212) x AAS21484 (1-1346)

QY 1 MetLeuTriLeuLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 7 ATGTTGTGCTGCTCTTTTCTGGTGATGTCATTCCTGTAATCTGTCAACCGGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT 126
QY 41 AlaTrpAspThrAsnGluLeuTrpLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 127 GCTTGGATACCAATCAGAAATACCTCTTCAAGCCATGCTAGCTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 187 GTTCCCAACAGAGACGACAGAAATTTCCATGCTCTTGTCAATGTACCCAGAGG 246
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 247 GTATCATCTGGTTTCTGGTTACAGACCCCTTCAAAAAATCACACCCCTTCTGCTGTGAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnArg 120
DB 307 GTGCAATCAGCCATAGAAATGACACAGAACCCGGATCAACATGCCCTTCTTCTAAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 367 CAAACTCTGGAATTTTAAATAATCCCTTCACACTTGCACCCATGACCCATCTGTG 426
QY 141 ProfileTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 427 CCATCTGCAATTATTATTATTTGGTGATATTGTCATCATCATCATGTTGCAATTGCACTA 486
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
DB 487 CTGATTTTATCAGGGATCTGGCAACGTAGAAGAAAGACAAAGAACCATCTGAATGGAT 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 547 GAGCTGTAGATTAAGTGTGAAACATGATCACAATTTGAATGGCATCCCTCTGATCCC 606
QY 201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
DB 607 CTGGACATGAGGGGGGCATATTATTATGATGCTTCA 642

RESULT 5

AAP44243
ID AAP44243 standard; cDNA; 1346 BP.

XX AAP44243;

XX 02-APR-2001 (first entry)

XX Human PRO1312 (UNQ678) nucleotide sequence SEQ ID NO:386.

XX Human; secreted and transmembrane protein; PRO; cytostatic; cell death;
KW cancer; chromosomal mapping; gene mapping; tissue typing;
KW diagnostic assay; ss.

XX Homo sapiens.

XX WO200073454-A1.

XX 07-DEC-2000.

XX 30-MAR-2000; 2000WO-US008439.

XX 02-JUN-1999; 99WO-US012252.

XX 23-JUN-1999; 99US-0141037P.

XX 07-JUL-1999; 99US-0143048P.

XX 20-JUL-1999; 99US-0144758P.

XX 26-JUL-1999; 99US-0145698P.

XX 28-JUL-1999; 99US-0146222P.

XX 17-AUG-1999; 99US-0149396P.

XX 15-SEP-1999; 99WO-US021090.

XX 15-SEP-1999; 99WO-US021547.

XX 08-OCT-1999; 99US-0158663P.

XX 30-NOV-1999; 99WO-US028331.

XX 01-DEC-1999; 99WO-US028301.

XX 16-DEC-1999; 99WO-US030095.

XX 20-DEC-1999; 99WO-US030911.

XX 05-JAN-2000; 2000WO-US000219.

XX 06-JAN-2000; 2000WO-US000376.

XX 11-FEB-2000; 2000WO-US003565.

XX 18-FEB-2000; 2000WO-US004341.

XX 22-FEB-2000; 2000WO-US004414.

XX 24-FEB-2000; 2000WO-US004914.

XX 24-FEB-2000; 2000WO-US005004.

XX 02-MAR-2000; 2000WO-US005841.

XX 15-MAR-2000; 2000WO-US006884.

XX 20-MAR-2000; 2000WO-US007377.

XX (GETH) GENENTECH INC.

XX Ashtenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CU, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NP;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;

XX WPI; 2001-032160/04.

XX P-PSDB; AAB65274.

XX PRO polynucleotides used to produce polypeptides used to target bioactive
XX molecules such as toxins, radiolabels or antibodies, to specific cells,
XX to cause targeted cell death.

XX Claim 2; Fig 277; 935pp; English.

XX The present invention describes human secreted and transmembrane PRO
XX proteins. The PRO proteins have cytostatic activity. The PRO proteins can
XX be used for targeted delivery of bioactive molecules, such as toxins,
XX radiolabels or antibodies, that cause cell death. PRO nucleotide
XX sequences, and their fragments, can be used as hybridisation probes, in
XX chromosomal and gene mapping, and in the generation of anti-sense RNA and
XX DNA. They may also be used to produce transgenic animals which are used
XX to develop and screen therapeutically useful reagents. The PRO nucleotide
XX and protein sequence can be used for tissue typing and in treating

CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
 CC AAF44470 represent PCR primers and hybridization probes used in the
 CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB5154 to
 CC AAB5300 represent human PRO polynucleotide and protein sequences given
 CC in the exemplification of the present invention
 XX
 SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:

Pred. NO.: 1.26e-123 Length: 1346
 Score: 1102.00 Matches: 212
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 5 Gaps: 0

US-09-989-724-387 (1-212) x AAF44243 (1-1346)

Qy 1 MetLeuTrpLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
 Db 7 ATGTTGGTGGCTGCTCTTTTCTGGTACTGCCATTCACTGCTGAACCCAGGT 66
 Qy 21 AlaGluAenAlaPheLysValArgLeuSerIleArgThrAlaLeuGluVasLysAlaTyr 40
 Db 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGACAGCTCTGGAGATAAAGCATAT 126
 Qy 41 AlaTrpAspThrAenGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
 Db 127 GCCTGGGATACCAATGAAGATACTCTTCAAGCGATGGTAGCTTTCTCCATCAGAAA 186
 Qy 61 ValProAenArgGluAlaThrGluIleSerHisValLeuLeuCysAenValThrGlnArg 80
 Db 187 GTTCCCAACAGAGAACCAACAGAAATTTCCCATGTCTTACTTGCATGTAAACCCAGAG 246
 Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 Db 247 GTATCATCTCGTTGGTTGTACAGACCTTCAAAAATACACCCCTTCTCGCTGTGAG 306
 Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAenAenAlaPhePheLeuAsnAsp 120
 Db 307 GTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACATGCCCTTCTTAAATGAC 366
 Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
 Db 367 CAACACTCGGAATTTTAAATAATCCCTTCCACACTTGCACCAACCCATGCCATCTGTG 426
 Qy 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
 Db 427 CCCATCTGATATATATATTTGGTGTATATTTTGCATCATCATATTTGCATTTGCACCTA 486
 Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAenLysGluProSerGluValAsp 180
 Db 487 CTGATTTTATCAGGATCTGCAACGCTAGAGAAGAACCAAGAACCAACCATCTGAGTGGAT 546
 Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAenGlyIleProSerAspPro 200
 Db 547 GACGCTGAAGATAAGTGTGAATAACATCATCAATTTGAATGGATCCCTCTGATCCC 606
 Qy 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
 Db 607 CTGGACATGAAGGGGGGCATATTAATGATGCTTCA 642

RESULT 6

ABX77959

ID ABX77959 standard; cDNA; 1346 BP.

XX

AC ABX77959;

XX

DT 14-APR-2003 (first entry)

XX

DE Human PRO polynucleotide #121.

XX

KW Human; PRO; gene; ss; cytostatic; tumour; cancer; breast; lung; stomach;

KW liver; horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
 KW antibody-dependent enzyme mediated prodrgug therapy.
 XX Homo sapiens.
 OS
 XX US2003027163-A1.
 PN
 XX 06-FEB-2003.
 PD
 XX 15-NOV-2001; 2001US-00997666.
 XX 16-JUN-1997; 97US-0049787P.
 XX 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US020069.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088021P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 04-JUN-1998; 98US-0088028P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088030P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 04-JUN-1998; 98US-0088326P.
 PR 05-JUN-1998; 98US-0088167P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088217P.
 PR 09-JUN-1998; 98US-0088655P.
 PR 10-JUN-1998; 98US-0088734P.
 PR 10-JUN-1998; 98US-0088738P.
 PR 10-JUN-1998; 98US-0088742P.
 PR 10-JUN-1998; 98US-0088810P.
 PR 10-JUN-1998; 98US-0088824P.
 PR 10-JUN-1998; 98US-0088826P.
 PR 11-JUN-1998; 98US-0088858P.
 PR 11-JUN-1998; 98US-0088861P.
 PR 11-JUN-1998; 98US-0088876P.
 PR 12-JUN-1998; 98US-0089105P.
 PR 16-JUN-1998; 98US-0089440P.
 PR 16-JUN-1998; 98US-0089512P.
 PR 16-JUN-1998; 98US-0089514P.
 PR 17-JUN-1998; 98US-0089532P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089598P.
 PR 17-JUN-1998; 98US-0089599P.
 PR 17-JUN-1998; 98US-0089600P.
 PR 17-JUN-1998; 98US-0089653P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.
 PR 19-JUN-1998; 98US-0089947P.
 PR 19-JUN-1998; 98US-0089948P.
 PR 19-JUN-1998; 98US-0089952P.
 PR 22-JUN-1998; 98US-0090246P.
 PR 22-JUN-1998; 98US-0090252P.
 PR 22-JUN-1998; 98US-0090254P.
 PR 23-JUN-1998; 98US-0090349P.
 PR 23-JUN-1998; 98US-0090355P.
 PR 24-JUN-1998; 98US-0090429P.
 PR 24-JUN-1998; 98US-0090431P.
 PR 24-JUN-1998; 98US-0090435P.
 PR 24-JUN-1998; 98US-0090444P.

```
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090542P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 12-AUG-1998; 98US-0096375P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98US-0100633P.
PR 17-SEP-1998; 98US-0100858P.

PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 98WO-US005028.
PR 12-MAR-1999; 98US-0123957P.
PR 02-JUN-1999; 98WO-US012252.
PR 23-JUN-1999; 98US-0141037P.
PR 07-JUL-1999; 98US-0143048P.
PR 20-JUL-1999; 98US-0144758P.
PR 26-JUL-1999; 98US-0145698P.
PR 28-JUL-1999; 98US-0146222P.
PR 17-AUG-1999; 98US-0149396P.
PR 15-SEP-1999; 98WO-US021090.
PR 15-SEP-1999; 98WO-US021547.
PR 08-OCT-1999; 98US-0158663P.
PR 30-NOV-1999; 98WO-US028313.
PR 01-DEC-1999; 98WO-US028301.
PR 01-DEC-1999; 98WO-US028634.
PR 16-DEC-1999; 98WO-US030095.
PR 20-DEC-1999; 98WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.

Alignment Scores:
Pred. No.: 1,26e-123 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 7 Gaps: 0

US-09-989-724-387 (1-212) x ABX77959 (1-1346)

QY 1 MetLeuTrrPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ATGTTGTGGTCTCTTTTCTGGTACTGCATTCATGCTGTAACCTCTGTCAACGAGGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAATGCTTTTAAAGTGAGATTAGTATCAGACAGCTCTGGGAGATAAGCATAT 126
QY 41 AlaTrrPheThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAGATACCTCTTCAAAGCATGCTAGCTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCCAACAGAGACACAGAAATTTCCCATGTCTTACTTGCATTAATGTAAACCCAGAG 246
QY 81 ValSerPheTrrPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
```

```
Db      247 GTATCATTTCTGTTGTGTACACCCCTTCAAAAATACACACCTTCTCTCTGTGAG 306
Qy      101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db      307 GTGCAATCAGCCATAGGAATGAACAAGAACCGGATCAACAATGCTTCTTCTTAATGAC 366
Qy      121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
Db      367 CAACCTCTGGAAATTTTAAATCCCTTCCACACTTGCACACCCATGACGCCATCTGTG 426
Qy      141 ProfileTpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
Db      427 CCCATCTGATTAATTAATTTGGTGATTAATTTTCATCATCATATGTTGCAATGACATA 486
Qy      161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
Db      487 CTGATTTTATCAGGATCTGGCAACCTAGAACAGAAAGACCAATCTCAAGTGGAT 546
Qy      181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db      547 GACGCTGAAGATAAGTGTGAACAACATGATCACAAATTGAAAATGGCATCCCTCTGATCCC 606
Qy      201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
Db      607 CTGGACATGAGGGGGGGGATTAATTAATGATGCCTTCA 642

RESULT 7
ABX80371
ID ABX80371 standard; DNA; 1346 BP.
XX
AC ABX80371;
XX
DT 28-APR-2003 (first entry)
XX
DE Novel human secreted or transmembrane protein PRO1192 DNA.
XX
KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disease;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis; gene; ds.
XX
OS Homo sapiens.
XX
PN US2002132252-A1.
XX
PD 19-SEP-2002.
XX
PF 14-NOV-2001; 2001US-00990442.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97MO-US020069.
PR 12-NOV-1997; 97MO-US02518P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089588P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 16-SEP-1998; 98MO-US019330.
PR 17-SEP-1998; 98MO-US019437.
PR 07-OCT-1998; 98MO-US021141.
PR 01-DEC-1998; 98MO-US025108.
PR 05-JAN-1999; 99MO-US000106.
PR 08-MAR-1999; 99MO-US005028.
PR 02-JUN-1999; 99MO-US012252.
PR 15-SEP-1999; 99MO-US021090.
PR 15-SEP-1999; 99MO-US021547.
PR 30-NOV-1999; 99MO-US028313.
PR 01-DEC-1999; 99MO-US028301.
PR 01-DEC-1999; 99MO-US028634.
PR 16-DEC-1999; 99MO-US030095.
PR 20-DEC-1999; 99MO-US030911.
PR 06-JAN-2000; 2000MO-US000219.
PR 06-JAN-2000; 2000MO-US000376.
PR 11-FEB-2000; 2000MO-US003565.
PR 18-FEB-2000; 2000MO-US004341.
PR 22-FEB-2000; 2000MO-US004414.
PR 24-FEB-2000; 2000MO-US004914.
PR 24-FEB-2000; 2000MO-US005004.
PR 02-MAR-2000; 2000MO-US005841.
PR 10-MAR-2000; 2000MO-US006319.
PR 15-MAR-2000; 2000MO-US006884.
PR 20-MAR-2000; 2000MO-US007377.
PR 30-MAR-2000; 2000MO-US008439.
PR 15-MAY-2000; 2000MO-US013358.
PR 17-MAY-2000; 2000MO-US013705.
PR 22-MAY-2000; 2000MO-US014042.
PR 30-MAY-2000; 2000MO-US014941.
PR 02-JUN-2000; 2000MO-US015264.
PR 28-JUL-2000; 2000MO-US020710.
PR 11-AUG-2000; 2000MO-US022031.
PR 23-AUG-2000; 2000MO-US023522.
PR 24-AUG-2000; 2000MO-US023328.
PR 08-NOV-2000; 2000MO-US030952.
PR 01-DEC-2000; 2000MO-US032678.
PR 28-FEB-2001; 2001MO-US006520.
PR 01-JUN-2001; 2001MO-US017800.
PR 20-JUN-2001; 2001MO-US019692.
```

PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 XX (GETH) GENENTECH INC.
 PA Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Baton DL;
 XX Ferrara N, Fong S, Gerber H, Gerritsen MB, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;
 XX WPI; 2003-247083/24.
 DR P-PSDB; ABUS9168.
 XX
 PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
 PT are therapeutically useful for enhancing immune response and in cancer
 PT treatments.
 XX
 PS Claim 2; Fig 279; 648pp; English.
 XX
 CC The invention describes an isolated human PRO polypeptide. The PRO
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
 CC in modulating at least one biological activity of a cell expressing a PRO
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
 CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
 CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
 CC useful for treating conditions or disorders where angiogenesis would be
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are
 CC useful for treating cancerous tumours. PRO812 inhibits vascular
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
 CC cells and is thus useful for inhibiting endothelial cell growth in
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing
 CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
 CC rod photoreceptor cells) and therefore are useful for treating retinal
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
 CC and therefore are useful for treating kidney disorders associated with
 CC decreased mesangial cell function such as Berger disease or other
 CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
 CC proliferation and/or redifferentiation of chondrocytes in culture and are
 CC thus useful for treating sports injuries, and arthritis. This sequence
 CC represents a novel human PRO protein polynucleotide
 XX
 SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:
 Pred. No.: 1,266-123 Length: 1346
 Score: 1102.00 Matches: 212
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 7 Gaps: 0

US-09-989-724-387 (1-212) x ABX80371 (1-1346)

QY 1 MetLeuTrpLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
 DB 7 ATGTTGGCTGCTCTTTTCTGGTGATCGCATTCATGCTGCACTCTGTCAACAGG 66
 QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
 DB 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGAGATAAGCATAT 126
 QY 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60

Db 127 GCCTGGGATACCAATGAAGAAATACCTCTTCAAGCCGATGGTAGCTTTCTCCATGAGAAA 186
 QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
 Db 187 GTTCCACAGAGAGACACAGAAATTTCCATGCTCTACTTTGCAATGTAACCCAGAG 246
 QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 Db 247 GTATCATCTCTGGTTTGGTGTACAGACCCCTTCAAAAAATCACACCCCTTCTGCTGTGAG 306
 QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
 Db 307 GTGCAATCAGCCATAGAATGAACAAGAACCGGATCAACAATGCCCTTCTTTCTAAATGAC 366
 QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
 Db 367 CAACCTCGAATTTTAAATATCCCTTCCACACTTGCACCACTCCACCCACCCATCTGTG 426
 QY 141 ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
 Db 427 CCCATCTGGATTAATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACACTA 486
 QY 161 LeuLeuLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
 Db 487 CTGATTTTATCAGGGATCTGGCAACCTAGAGAAGAAAGAACAAAGACCATCTGAAGTGAT 546
 QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 Db 547 GAGCTGAGAGATAAGTGTGAAACATGATCACAATTTGAAAATGGCATCCCTCTGTATCCC 606
 QY 201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
 Db 607 CTGGACATGAGGGGGGCATATTAATGATGCTTCA 642
 RESULT 8
 ACA69277
 ID ACA69277 standard; cDNA; 1346 BP.
 XX
 AC ACA69277;
 XX
 DT 26-JUN-2003 (first entry)
 XX
 DE Human cDNA encoding secreted/transmembrane protein PRO1312.
 KW Human; ss; gene; PRO; secreted protein; transmembrane protein;
 KW cardiac insufficiency disorders; angiogenesis; wound healing;
 KW cancerous tumour; immune response; retinal disorder; sight loss;
 KW retinitis pigmentosa; age-related macular degeneration; AMD;
 KW kidney disorder; Berger disease; nephropathy; dermatitis; herpeticiformis;
 KW Crohn's disease; sports injury; arthritis.
 XX
 OS Homo sapiens.
 XX
 PN US2003032023-A1.
 XX
 PD 13-FEB-2003.
 XX
 PP 14-NOV-2001; 2001US-00990711.
 XX
 PR 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US020069.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.

PR	02-JUN-1998;	98US-0087759P.	PR	07-JUL-1998;	98US-0091982Z.
PR	03-JUN-1998;	98US-0087827P.	PR	09-JUL-1998;	98US-0092182P.
PR	04-JUN-1998;	98US-0088021P.	PR	10-JUL-1998;	98US-0092472P.
PR	04-JUN-1998;	98US-0088025P.	PR	20-JUL-1998;	98US-0093339P.
PR	04-JUN-1998;	98US-0088026P.	PR	30-JUL-1998;	98US-0094651P.
PR	04-JUN-1998;	98US-0088028P.	PR	04-AUG-1998;	98US-0095282P.
PR	04-JUN-1998;	98US-0088029P.	PR	04-AUG-1998;	98US-0095285P.
PR	04-JUN-1998;	98US-0088030P.	PR	04-AUG-1998;	98US-0095301P.
PR	04-JUN-1998;	98US-0088033P.	PR	04-AUG-1998;	98US-0095302P.
PR	04-JUN-1998;	98US-0088326P.	PR	04-AUG-1998;	98US-0095318P.
PR	05-JUN-1998;	98US-0088167P.	PR	04-AUG-1998;	98US-0095321P.
PR	05-JUN-1998;	98US-0088202P.	PR	04-AUG-1998;	98US-0095325P.
PR	05-JUN-1998;	98US-0088212P.	PR	10-AUG-1998;	98US-0095916P.
PR	05-JUN-1998;	98US-0088217P.	PR	10-AUG-1998;	98US-0095929P.
PR	09-JUN-1998;	98US-0088655P.	PR	10-AUG-1998;	98US-0096012P.
PR	10-JUN-1998;	98US-0088734P.	PR	11-AUG-1998;	98US-0096143P.
PR	10-JUN-1998;	98US-0088738P.	PR	11-AUG-1998;	98US-0096146P.
PR	10-JUN-1998;	98US-0088742P.	PR	12-AUG-1998;	98US-0096329P.
PR	10-JUN-1998;	98US-0088810P.	PR	17-AUG-1998;	98US-0096329P.
PR	10-JUN-1998;	98US-0088824P.	PR	17-AUG-1998;	98US-0096575P.
PR	10-JUN-1998;	98US-0088826P.	PR	17-AUG-1998;	98US-0096766P.
PR	11-JUN-1998;	98US-0088858P.	PR	17-AUG-1998;	98US-0096768P.
PR	11-JUN-1998;	98US-0088861P.	PR	17-AUG-1998;	98US-0096773P.
PR	11-JUN-1998;	98US-0088866P.	PR	17-AUG-1998;	98US-0096791P.
PR	12-JUN-1998;	98US-0089105P.	PR	17-AUG-1998;	98US-0096867P.
PR	16-JUN-1998;	98US-0089440P.	PR	17-AUG-1998;	98US-0096891P.
PR	16-JUN-1998;	98US-0089512P.	PR	17-AUG-1998;	98US-0096894P.
PR	16-JUN-1998;	98US-0089514P.	PR	17-AUG-1998;	98US-0096895P.
PR	17-JUN-1998;	98US-0089532P.	PR	17-AUG-1998;	98US-0096897P.
PR	17-JUN-1998;	98US-0089538P.	PR	18-AUG-1998;	98US-0096949P.
PR	17-JUN-1998;	98US-0089598P.	PR	18-AUG-1998;	98US-0096950P.
PR	17-JUN-1998;	98US-0089599P.	PR	18-AUG-1998;	98US-0096950P.
PR	17-JUN-1998;	98US-0089600P.	PR	18-AUG-1998;	98US-0096950P.
PR	17-JUN-1998;	98US-0089653P.	PR	19-AUG-1998;	98US-0097022P.
PR	18-JUN-1998;	98US-0089801P.	PR	19-AUG-1998;	98US-0097141P.
PR	18-JUN-1998;	98US-0089907P.	PR	20-AUG-1998;	98US-0097218P.
PR	18-JUN-1998;	98US-0089908P.	PR	24-AUG-1998;	98US-0097661P.
PR	19-JUN-1998;	98US-0089947P.	PR	26-AUG-1998;	98US-0097952P.
PR	19-JUN-1998;	98US-0089948P.	PR	26-AUG-1998;	98US-0097954P.
PR	19-JUN-1998;	98US-0089952P.	PR	26-AUG-1998;	98US-0097955P.
PR	22-JUN-1998;	98US-0090246P.	PR	26-AUG-1998;	98US-0097971P.
PR	22-JUN-1998;	98US-0090252P.	PR	26-AUG-1998;	98US-0097974P.
PR	22-JUN-1998;	98US-0090254P.	PR	26-AUG-1998;	98US-0097978P.
PR	23-JUN-1998;	98US-0090349P.	PR	26-AUG-1998;	98US-0097979P.
PR	23-JUN-1998;	98US-0090355P.	PR	26-AUG-1998;	98US-0097986P.
PR	24-JUN-1998;	98US-0090429P.	PR	26-AUG-1998;	98US-0098014P.
PR	24-JUN-1998;	98US-0090431P.	PR	16-SEP-1998;	98US-0100634P.
PR	24-JUN-1998;	98US-0090435P.	PR	16-SEP-1998;	98US-0100634P.
PR	24-JUN-1998;	98US-0090444P.	PR	16-SEP-1998;	98US-0100634P.
PR	24-JUN-1998;	98US-0090445P.	PR	17-SEP-1998;	98US-0100858P.
PR	24-JUN-1998;	98US-0090472P.	PR	17-SEP-1998;	98US-0100858P.
PR	24-JUN-1998;	98US-0090535P.	PR	07-OCT-1998;	98US-0100858P.
PR	24-JUN-1998;	98US-0090540P.			

```
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.

Alignment Scores:
Pred. NO.: 1.26e-123 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 7 Gaps: 0

US-09-989-724-387 (1-212) x ACA69277 (1-1346)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ATGTGTGGCTGCTCTCTTTCTGGTGAAGTGCATTCATGCTGAACCTCTGTCAACAGGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 CGAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 126
QY 41 AlaTrpAspThrAsnGluGlyTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAAGATACCTCTTCAAAGCATGGTAGCTTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCCAACAGAGAACAACAGAAATTTCCCATGTCTCTTGCATATGTAACCCAGAGG 246
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 247 GTATCATCTGGTTGTGGTTACAGACCTTCAAAAATACACACCTTCTCTGCTGTGAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnApp 120
Db 307 GTGCAATCAGCCATAAGATGAACAGAACCGGATCAACATGCTTCTTCTTAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
Db 367 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCCACCCATGGACCCATCTGTG 426
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
Db 427 CCATCTGATATTATTATTTGGTGATATTTTGCATCATCATATGTTCAATTGGACAT 486
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTATCAGGATCTGGCAACCTAGAGAAAGACAAAGAACCAATCTGAATGGAT 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GACGCTGAAGATAAGTGTGAAACATCATCACAATTTGAAATGGCATCCCTCTGATCCC 606
QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
Db 607 CTGGACATGAAGGGGGGCATATTATTAATGATGCCTTCA 642
```

```
RESULT 9
ACD24093
ID ACD24093 standard; cDNA; 1346 BP.
XX AC ACD24093;
XX DT 26-AUG-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO1312 cDNA.
XX KW Human; secreted and transmembrane protein; PRO; antiinflammatory;
KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;
KW antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;
KW TNF-alpha release; cell proliferation; cell differentiation;
KW gene expression modulator; proteoglycan release; cytokine release;
KW tumour; inflammatory disease; organ failure; atherosclerosis;
KW cardiac injury; infertility; birth defect; premature aging; AIDS;
KW acquired immunodeficiency syndrome; cancer; diabetic complication;
KW chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;
KW bioreactor; tissue typing; gene; ss.
XX OS Homo sapiens.
XX PN US2003032156-A1.
XX PD 13-FEB-2003.
XX PF 06-MAY-2002; 2002US-00140474.
XX PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
```

PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006656.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001US-00908827.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX (GETH) GENENTECH INC.
PA Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff B, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-341980/32.
DR P-PSDB; ABO17856.
XX
XX New secreted and transmembrane PRO nucleic acids, for treating
PT inflammation, organ failure, atherosclerosis, cardiac injury,
PT infertility, birth defects, premature aging, acquired immunodeficiency
PT syndrome (AIDS), or cancer.
XX
PS Claim 2; Fig 481; 660pp; English.
XX
XX The invention describes an isolated nucleic acid (I) comprising, or which

CC has 80 % sequence identity to, or the full-length coding sequence of, one
of 275 nucleotide sequences, and which encodes a corresponding
polypeptide selected from 275 amino acid sequences, where all sequences
are given in the specification. The polypeptide encoded by (I) is used to
detect PRO polypeptides, link a bioactive molecule to a cell expressing a
PRO polypeptide, modulate a biological activity of a cell, stimulate the
release of tumour necrosis factor (TNF)-alpha from human blood, modulate
the uptake of glucose or free fatty acid by cells, stimulate or inhibit
the proliferation or differentiation of cells or gene expression,
stimulate the release of proteoglycans, stimulate the binding of A-peptide
from peripheral blood mononuclear cells, inhibit the binding of A-peptide
to factor VIIA, or detect the presence of tumour in a mammal. The nucleic
acid and polypeptide encoded by it, are useful for treating inflammatory
diseases, organ failure, atherosclerosis, cardiac injury, infertility,
birth defects, premature aging, acquired immunodeficiency syndrome
(AIDS), cancer, or diabetic complications. The nucleic acid is useful as
hybridisation probes, in chromosome and gene mapping, and in generating
antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
CC This sequence encodes a novel human secreted and transmembrane PRO
polypeptide
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;
Alignment Scores:
Pred. No.: 1.26e-123 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 7 Gaps: 0
US-09-989-724-387 (1-212) x ACD24093 (1-1346)
QY 1 MetLeuTrrPheLeuValThrAlaIleHieAlaGluLeuCysGlnProGly 20
Db 7 ATGTTGGCTGCTCTTTTCTGGTACTGCCATTCATGCTGTAACCTCTCAACAGGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 126
QY 41 AlaTrrAspThrAsnGluLutryrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAGAGATACCTTTCAAGCGATGCTAGCTTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCACACGAGAGACACAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAG 246
QY 81 ValSerPheTrrPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 247 GTATCATCTGGTTTGGTTTACAGACCTTCAAAAATCACAACCTTCTGCTGTGTGAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPheLeuAsnAsp 120
Db 307 GTGCAATCAGCCATAGAAATGACAGAACCCGATCAACAATGCCCTTCTTTTAAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
Db 367 CAACACTCGAATTTTAAATATCCCTTCCACACTTGCACCACTTGCACCACTCTGTG 426
QY 141 ProIleTrrPheIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
Db 427 CCCATCTGGATTTATATATTTGGTGTGATATTTCATCATCATAGTAGTTCATTTGCACT 486
QY 161 LeuLeuLeuSerGlyIleTrrPGLnArgArgArgLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTATCAGGGATCTGGCAACGCTAGAGAGAAAGACAAAGAACCATCTGAAGTGGAT 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GACGCTGAGATTAAGTGTGAAACATGATCACAAATTTGAAATGGCATCCCTCTGATCCC 606

Qy 201 LeuAspMetIysGlyClyIleLeuMetMetProSer 212
Db 607 CTGGACATGAGGGGGCCATTAATGATGCCTTCA 642

RESULT 10
ABX90348
ID ABX90348 standard; cDNA; 1346 BP.
XX AC ABX90348;
XX DT 01-MAY-2003 (first entry)
XX DE Human secreted/transmembrane protein cDNA, #157.
XX KW Human; gene; ss; PRO; secreted; transmembrane; signal peptide;
KW pharmaceutical; diagnostic; therapeutic; gene therapy.
XX OS Homo sapiens.
XX PN US2002160384-A1.
XX PD 31-OCT-2002.
XX PF 14-NOV-2001; 2001US-00992598.
XX PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 05-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088212P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.

PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089908P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.

(GETH) GENENTECH INC.

Ashtenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL,
Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski RJ,
Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Fan J, Paoni NF,
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
Zhang Z;

WPI: 2003-288106/28.
P-PSDB; ABU60598.

New transmembrane polypeptides and nucleic acids encoding the
polypeptides, useful in gene therapy, in chromosome identification, as
chromosome markers, or in generating probes.

Claim 2; Fig 277; 650pp; English.

The invention discloses isolated PRO secreted/transmembrane polypeptides
comprising a sequence without signal peptide and the nucleic acid
encoding them. The polypeptides can be used to raise antibodies that
specifically bind to the PRO polypeptide, for linking a bioactive
molecule to a cell expressing a PRO protein and for modulating at least
one biological activity of a cell. The PRO polypeptides or
polynucleotides are also useful in gene therapy, in chromosome
identification, as chromosome markers, or in generating probes. The PRO
polypeptides are useful as molecular markers for protein electrophoresis,

CC and the isolated nucleic acids may be used for recombinantly expressing
CC those markers. The PRO polypeptides and nucleic acids may also be used in
CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for
CC PRO, and in affinity purification of PRO from recombinant cell culture or
CC natural sources. The sequences presented in ABX90083-ABX90468 are the
CC genes encoding, the primers amplifying and the probes detecting the PRO
CC polynucleotides of the invention. Note: The sequence data for this patent
CC is also available in electronic format from USPTO at
CC seqdata.uspto.gov/sequence.html
XX

XX SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.:	1-26e-123	Length:	1346
Score:	1102.00	Matches:	212
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	7	Gaps:	0

US-09-989-724-387 (1-212) x ABX90348 (1-1346)

Qy	1	MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly	20
Db	7	ATGTTGTGGCTGCTCTTTTCTGGTGACTGCCATTTCATGCTGAACCTCTGTCAACCAAGT	66
Qy	21	AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr	40
Db	67	GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT	126
Qy	41	AlaTrpAspThrAsnGluLeuValPheLysAlaMetValAlaPheSerMetArgLys	60
Db	127	GCCTGGGATACCAATGAGAAATACCTTTCAAAGCGATGGTGTCTTCTCCATGAGAAA	186
Qy	61	ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg	80
Db	187	GTTCCTCAACAGAGAACCAACAGAAATTTCCATGTCTTACTTTCGCAATGTAAACCAAGG	246
Qy	81	ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu	100
Db	247	GTATCATTTCTGGTTGTGTTTACAGACCTTTCAAAAAATCACACCTTCTCTGTGTGAG	306
Qy	101	ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPheLeuAsnAsp	120
Db	307	GTGCATCTGGAATTTTAAATAATCCCTTCCACACTTGCACCAACCATGGACCCATCTGTG	366
Qy	121	GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal	140
Db	367	CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGCACCAACCATGGACCCATCTGTG	426
Qy	141	ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu	160
Db	427	CCCATCTGGATTTATATATTTGGTGTGATATTTTGCATCATCATATGTTGCAATGCACTA	486
Qy	161	LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp	180
Db	487	CTGATTTTATCAGGATCTGCAACAGTAGAAGAAGAACCAAGAACCATCTGAAAGTGGAT	546
Qy	181	AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro	200
Db	547	GAGCTCAAGATAGTGTGAAACAATCATCATCATATTCGAATGGCATCCCTCTGTATCCC	606
Qy	201	LeuAspMetLysGlyIleLeuMetMetProSer	212
Db	607	CTGACATGAAGGGGGGCATATTAATGATGCTTCA	642

RESULT 11

ABX64194

ID ABX64194 standard; cDNA; 1346 BP.

XX

AC ABX64194;

XX

DT 26-FEB-2003 (first entry)

XX cDNA encoding human PRO1312 polypeptide.

DE Human; PRO polypeptide; secreted protein; transmembrane protein;
XX genetic disorder; antibacterial; immunosuppressive; transgenic;
KW gene therapy; gene; ss.

XX Homo sapiens.

XX US2002103125-A1.

XX 01-AUG-2002.

XX 20-NOV-2001; 2001US-00989731.

XX 16-JUN-1997; 97US-0049787P.

XX 17-OCT-1997; 97US-0062250P.

XX 05-NOV-1997; 97WO-US020069.

XX 12-NOV-1997; 97US-0065186P.

XX 13-NOV-1997; 97US-0065311P.

XX 24-NOV-1997; 97US-0066770P.

XX 25-FEB-1998; 98US-0075945P.

XX 20-MAR-1998; 98US-0078910P.

XX 28-APR-1998; 98US-0083322P.

XX 07-MAY-1998; 98US-0084600P.

XX 28-MAY-1998; 98US-0087106P.

XX 02-JUN-1998; 98US-0087607P.

XX 02-JUN-1998; 98US-0087609P.

XX 03-JUN-1998; 98US-0087827P.

XX 04-JUN-1998; 98US-0088021P.

XX 04-JUN-1998; 98US-0088025P.

XX 04-JUN-1998; 98US-0088026P.

XX 04-JUN-1998; 98US-0088028P.

XX 04-JUN-1998; 98US-0088030P.

XX 04-JUN-1998; 98US-0088033P.

XX 04-JUN-1998; 98US-0088036P.

XX 05-JUN-1998; 98US-0088167P.

XX 05-JUN-1998; 98US-0088202P.

XX 05-JUN-1998; 98US-0088212P.

XX 05-JUN-1998; 98US-0088217P.

XX 05-JUN-1998; 98US-0088655P.

XX 10-JUN-1998; 98US-0088734P.

XX 10-JUN-1998; 98US-0088738P.

XX 10-JUN-1998; 98US-0088742P.

XX 10-JUN-1998; 98US-0088810P.

XX 10-JUN-1998; 98US-0088824P.

XX 11-JUN-1998; 98US-0088836P.

XX 11-JUN-1998; 98US-0088858P.

XX 11-JUN-1998; 98US-0088861P.

XX

DE

XX

KW

XX

OS

XX

PN

XX

PD

XX

PF

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

XX

PR

PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030913.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US000356.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX (GETH) GENENTECH LTD.
XX
XX
PI Ashtenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Pacini NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
XX WPI; 2003-102117/09.
DR P-PSDB; ABU13980.
XX
XX
XX Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers.
XX
XX Claim 2; Fig 277; 649pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides are useful for detecting other PRO polypeptides, for linking
CC bioactive molecules to cells expressing PRO polypeptides, for modulating
CC biological activities of cells expressing PRO polypeptides, and for
CC identifying agonists or antagonists. The polynucleotide sequences
CC encoding PRO polypeptides are useful as hybridisation probes, in
CC chromosome and gene mapping, in the generation of antisense RNA and DNA,
CC in the preparation of PRO polypeptides, for generating transgenic animals
CC or knockout animals, to construct hybridisation probes for mapping the
CC gene which encodes the PRO polypeptide, and for the genetic analysis of
CC individuals with genetic disorders, in gene therapy, for chromosome
CC identification, as chromosome markers, and for generating probes for PCR,
CC Northern analysis, Southern analysis and Western analysis. The present
CC sequence encodes a human PRO polypeptide of the invention. Note: The
CC sequence data for this patent was obtained in electronic format directly
CC from the USPTO web site at seqdata.uspto.gov/psipsIDEntry.html
XX
XX Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:
Pred. No.: 1,26e-123 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 7 Gaps: 0
US-09-989-724-387 (1-212) x ABX64194 (1-1346)
QY 1 MetLeuTrrPheLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ATGTTGGCTGCTCTTTTCTGGTACTGCCATTCATGCTGTAACAGGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 126
QY 41 AlaTrrPhePheThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAAGAAATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCACAGAGAGAGCAAGAAATTTCCCATGCTCTACTTTGCAATGTAAACCCAGAGG 246
QY 81 ValSerPheTrrPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 247 GTATCATTCCTGGTTTGTGGTTACAGACCCCTTCAAAAAATCACACCCCTTCTGCTGTGAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgGileAsnAsnAlaPhePheLeuAsnAsp 120
Db 307 GTGCAATCAGCCATGAAGATGAACAGAACCCGATCAACATGCCCTCTTCTTAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
Db 367 CAACCTCGAATTTTAAAAATCCCTCCACACTTGCACCCACCCATCTGTG 426
QY 141 ProIleTrrPheIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
Db 427 CCCATCTGGATTTATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATGCACTA 486
QY 161 LeuIleLeuSerGlyIleTrrPheGlnArgArgAspLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTTATCAGGATCTGGCAAGTAGAAGAGAACAGAACACNCATCTGAATGGAT 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GAGCTGAAGATAAGTGTGAAAACATGATCACAAATTGAAAATGGCATCCCTCTGATCCC 606
QY 201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
Db 607 CTGGACATGAGGGGGGCATATTAATGATGCTTCA 642
RESULT 12
ACAG67234
ID ACAG67234 standard; cDNA; 1346 BP.
XX
XX ACAG67234;
XX
XX 23-JUN-2003 (first entry)
XX
XX CDNA encoding human PRO polypeptide #241.
XX
XX Human; PRO polypeptide; secreted and transmembrane protein;
KW anti-PRO antibody; diagnostic assay; gene expression; diabetes;
KW bone disorder; cartilage disorder; rheumatoid arthritis; obesity;
KW sports injury; osteoarthritis; hyper-insulinaemia; hypo-insulinaemia;
KW hearing loss; coagulation disorder; stroke; heart attack; cardiac;
KW antidiabetic; anorectic; vulnerable; antiarthritic; osteopathic;
KW antirheumatic; auditory; cerebroprotective; angiogenic; gene; ss.

OS Homo sapiens.
XX US2003004311-A1.
PN
XX
PD
XX
XX 02-JAN-2003.
XX
PF
XX 19-DEC-2001; 2001US-00028072.
XX
PR 18-JUN-1997; 97US-0049911P.
PR 26-AUG-1997; 97US-0056974P.
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 19-SEP-1997; 97US-0059352P.
PR 19-SEP-1997; 97US-0059588P.
PR 24-SEP-1997; 97US-0059836P.
PR 17-OCT-1997; 97US-0062250P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 17-OCT-1997; 97US-0063755P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063082P.
PR 24-OCT-1997; 97US-0063127P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063529P.
PR 28-OCT-1997; 97US-0063550P.
PR 29-OCT-1997; 97US-0063561P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063733P.
PR 29-OCT-1997; 97US-0063735P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064802P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066709P.
PR 11-DEC-1997; 97US-0069212P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 16-DEC-1997; 97US-0069694P.
PR 23-JAN-1998; 98US-0072320P.
PR 04-FEB-1998; 98US-0073612P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 12-MAR-1998; 98US-0077791P.
PR 20-MAR-1998; 98US-0078910P.
PR 25-MAR-1998; 98US-0079294P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079728P.
PR 31-MAR-1998; 98US-0080165P.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031243.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
XX (GETH) GENENTECH INC.
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski FJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-352836/33.
DR P-FSDB; AB081110.
XX
PT New isolated PRO polypeptide useful for treating diabetes, rheumatoid
PT arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or
PT heart attack.
XX
PS Claim 2; Fig 481; 643pp; English.
XX
CC The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides and polynucleotides are useful for preparing a medicament
CC useful in the treatment of diabetes, bone and/or cartilage disorders
CC (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity,
CC hyper- or hypo-insulinaemia, hearing loss, and coagulation disorders
CC (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic
CC assays for PRO, by detecting its expression in specific cells, tissues or
CC serum, and for affinity purification of PRO from recombinant cell culture
CC or natural sources. ACA66994-ACA67268 represent cDNA sequences encoding
CC the human PRO polypeptides of the invention. Note: The sequence data for
CC this patent was obtained in electronic format directly from the USPTO web
CC site at seqdata.uspto.gov/psipdEntry.html
XX
SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;
Alignment Scores:
Pred. No.: 1.26e-123 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0

```
Query Match: 100.00% Indels: 0
DB: 7 Gaps: 0
US-09-989-724-387 (1-212) x ACA67234 (1-1346)

Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
    |||||
Db 7 ATGTTGTGGCTGCTCTTTTCTGGTGACTGCATTCATGCTGAACCTCTGTCACACAGT 66

Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
    |||||
Db 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT 126

Qy 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
    |||||
Db 127 GCCTGGGATACCAATGAAGATACCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 186

Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
    |||||
Db 187 GTTCCACACAGAGACACAGAAATTTCCCATGTCCTACTTTCATGTAAACCCAGAGG 246

Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
    |||||
Db 247 GTATCATCTGCTTGTGTGTTACAGACCTTCACAAAATTCACACCTTCTGCTGTTGAG 306

Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
    |||||
Db 307 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACATGCTTCTTCTAAATGAC 366

Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
    |||||
Db 367 CAACACTCGGAATTTTAAATTCCTCCACACTTGACACACCATGAGCCCATCTGTG 426

Qy 141 ProfileTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
    |||||
Db 427 CCCATCTGGATTAATATTTGCTGTGATATTTGCTCATCATCATAGTTGCAATTCACAT 486

Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
    |||||
Db 487 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAACAAACCATCTGAAGTGGAT 546

Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
    |||||
Db 547 GACGCTGAAGATAAGTGTGAACATGATCACAATTGAATGGCATCCCTCTGATCCC 606

Qy 201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
    |||||
Db 607 CTGGACATGAGGGGGGCATATTAATGATGCCTTCA 642

RESULT 13
ACA64416
ID ACA64416 standard; cDNA; 1346 BP.
XX
AC ACA64416;
XX
DT 17-JUN-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO1312 cDNA.
XX
KW Human; secreted and transmembrane protein; cytostatic; anti-HIV;
KW viricide; hepatotropic; antiinflammatory; neuroprotective; gene therapy;
KW PRO; pharmaceutical; diagnostic; biosensor; bioreactor; malignancy;
KW cancer; ovarian cancer; colorectal cancer; Kaposi's sarcoma; leukaemia;
KW lymphoma; hepatitis B; multiple sclerosis; Crohn's disease;
KW drug screening; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003003531-A1.
XX
PD 02-JAN-2003.
XX
PF 19-NOV-2001; 2001US-00989734.

XX 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087753P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089807P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
```

PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015284.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 XX
 PA (GETH) GENENTECH INC.
 XX
 XX Aehkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen WE, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AJ, Kijavini IG, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PW, Wood WT,
 PI Zhang Z;
 XX
 XX WPI: 2003-352829/33.
 DR P-PSDB; ABU72565.
 DR
 XX
 XX New genes and secreted and transmembrane polypeptides (e.g. PRO183 or
 PT PRO184), useful for treating or diagnosing e.g. ovarian cancer, Kaposi's
 PT sarcoma, leukemia, lymphoma, hepatitis B, multiple sclerosis or Crohn's
 PT disease.
 XX
 XX Claim 1; Fig 277; 663pp; English.
 PS
 XX The invention describes a new isolated nucleic acid molecule comprising
 CC the full length coding sequence of the DNA deposited with the American
 CC Type Culture Collection (e.g. ATCC deposit No. 209621, 552-PTA, 819-PTA,
 CC 209439, 203135, etc); or a sequence with at least 80% identity to a DNA
 CC encoding a PRO polypeptide. The PRO polypeptides or polynucleotides are
 CC useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These
 CC are particularly useful for detecting or treating e.g. malignancies or
 CC cancers (e.g. ovarian cancer, colorectal cancer, Kaposi's sarcoma,
 CC leukaemia or lymphoma), hepatitis B, multiple sclerosis, or Crohn's
 CC disease in mammals. The PRO polypeptides are useful in drug screening,
 CC particularly as targets for therapeutic intervention in these diseases,
 CC and in the diagnostic determination of the presence of these diseases.
 CC The PRO polypeptides are also useful as molecular weight markers, or for
 CC chromosome identification. The PRO genes are useful as hybridisation
 CC probes, or for screening libraries of human cDNA, genomic DNA or mRNA.
 CC The PRO genes may also be used in gene therapy, particularly for
 CC replacing a defective gene. This sequence encodes a novel human secreted
 CC and transmembrane PRO polypeptide
 XX
 SQ Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

 Alignment Scores:
 Pred. No.: 1.26e-123 Length: 1346
 Score: 1102.00 Matches: 212
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 7 Gaps: 0

 US-09-989-724-387 (1-212) x ACA64416 (1-1346)

 QY 1 MetLeuThrPheLeuValThrAlaLeuHisAlaGluLeuCysGlnProGly 20
 |||||||

Db 7 ATGTTGTGGCTGCTCTTTTCTGTGACTGCATTCATGCTGAACCTCTGTCAACAGGT 66
 QY 21 AlaGluAsnAlaPheLeuValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
 Db 67 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAAAGCATAT 126
 QY 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
 Db 127 GCCTGGGATACCAATGAAGAATACCTCTTCAAAGCGATGGTAGCTTTCTCCATGAGAAA 186
 QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
 Db 187 GTTCCACACAGAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACCCAGAGG 246
 QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
 Db 247 GTATCAATCTCGTTGTGTTACAGACCCCTTCAAAAAATCAACACCTTCTCTGCTGTGAG 306
 QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
 Db 307 GTGCATTCAGCCATAAGAATGAACAAACCGGATCAACAATGCCTTCTTCTAAATGAC 366
 QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
 Db 367 CAACCTCTGGAAATTTTAAATTCCTTCCACACTTGCACCCATGAGACCACTGTG 426
 QY 141 ProlleThrIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
 Db 427 CCATCTGGATTATTATATTATTTGGTGTGATATTTTGCATCATCATAGTTGCAATGCACTA 486
 QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
 Db 487 CTGATTTTATCAGGATCTGGCAACGTAGAAGAAAGAAACAAAGAACCATCTGAAGTGGAT 546
 QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
 Db 547 GACCTGGAATAGTGTGAACAAACATGATCAATTTGAATGGCATCCCTCTGATCCC 606
 QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
 Db 607 CTGCACATGAAGGGGGCATTAATGATGCTTCA 642

 RESULT 14
 ACA03843
 ID ACA03843 standard; cDNA; 1346 BP.
 XX
 AC ACA03843;
 XX
 DT 23-MAY-2003 (first entry)
 XX cDNA encoding human PRO polypeptide #241.
 DE Human; PRO polypeptide; secreted and transmembrane protein;
 XX tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;
 KW differentiation; chondrocyte; tumour; genetic disorder; cytostatic; gene;
 KW ss.
 XX
 OS Homo sapiens.
 XX
 PN US2003036180-A1.
 XX
 PD 20-FEB-2003.
 XX
 XX 09-MAY-2002; 2002US-00143114.
 XX
 PF 31-MAR-1997; 97WO-US005230.
 PR 12-JUN-1998; 98WO-US012456.
 PR 14-JUL-1998; 98WO-US014552.
 PR 28-AUG-1998; 98WO-US017888.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019093.
 PR 14-SEP-1998; 98WO-US019094.
 PR 14-SEP-1998; 98WO-US019177.

```
PR 16-SEP-1998; 98WO-US0191330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 98WO-US005028.
PR 10-MAR-1999; 98WO-US005190.
PR 20-APR-1999; 98WO-US008615.
PR 14-MAY-1999; 98WO-US010733.
PR 02-JUN-1999; 98WO-US012252.
PR 01-SEP-1999; 98WO-US020111.
PR 08-SEP-1999; 98WO-US020594.
PR 13-SEP-1999; 98WO-US020944.
PR 15-SEP-1999; 98WO-US021090.
PR 15-SEP-1999; 98WO-US021547.
PR 05-OCT-1999; 98WO-US023089.
PR 29-NOV-1999; 98WO-US028214.
PR 30-NOV-1999; 98WO-US028313.
PR 30-NOV-1999; 98WO-US028409.
PR 01-DEC-1999; 98WO-US028301.
PR 01-DEC-1999; 98WO-US028634.
PR 02-DEC-1999; 98WO-US028551.
PR 02-DEC-1999; 98WO-US028564.
PR 02-DEC-1999; 98WO-US028565.
PR 16-DEC-1999; 98WO-US030095.
PR 20-DEC-1999; 98WO-US030911.
PR 20-DEC-1999; 98WO-US030999.
PR 22-DEC-1999; 98WO-US030720.
PR 30-DEC-1999; 98WO-US031243.
PR 30-DEC-1999; 98WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US000356.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006684.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US011705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.

PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
XX (GETH ) GENENTECH INC.
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff B, Gao W;
XX Gerritsen MB, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI: 2003-332040/31.
XX P-PSDB; ABU66810.
XX
XX New secreted and transmembrane PRO nucleic acids, useful for gene
XX therapy, in chromosome and gene mapping, as chromosome markers, in tissue
XX typing, and in chromosome identification.
XX
XX Claim 2; Fig 481; 660pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
XX polypeptides, and the polynucleotide sequences encoding them. The PRO
XX polypeptides are secreted and transmembrane proteins. The PRO
XX polypeptides are useful for detecting other PRO polypeptides, for linking
XX bioactive molecules to cells expressing PRO polypeptides, for modulating
XX biological activities of cells expressing PRO polypeptides, and for
XX identifying agonists or antagonists. The PRO polypeptides are useful for
XX for stimulating the release of tumour necrosis factor (TNF)-alpha from
XX human blood, for stimulating the proliferation or differentiation of
XX chondrocytes, and detecting the presence of tumours. The polynucleotide
XX sequences encoding PRO polypeptides are useful as hybridisation probes,
XX in chromosome and gene mapping, in the generation of antisense RNA and
XX DNA, in the preparation of PRO polypeptides, for generating transgenic
XX animals or knockout animals, for the genetic analysis of individuals with
XX genetic disorders, and in gene therapy. ACA03603-ACA03877 represent cDNAs
XX encoding the human PRO polypeptides of the invention. Note: The sequence
XX data for this patent was obtained in electronic format directly from the
XX USPTO web site at seqdata.uspto.gov/patseq/entry.html
XX
XX Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:
Pred. No.: 1 26e-123 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 7 Gaps: 0

US-09-989-724-387 (1-212) x ACA03843 (1-1346)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
| | | | |
Db 7 ANGTGTGGCTGCTCTTTTCTGGGAGCTGGCAATTCATGCTGCTCAACAGGT 66
| | | | |
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
| | | | |
Db 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATATCAGAACAGCTCTGGGAGATAAGCATAT 126
| | | | |
```


PR 25-MAY-2001; 2001US-00866038.
 PR 25-MAY-2001; 2001US-00866034.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 21-JUN-2001; 2001US-00887879.
 PR 22-JUN-2001; 2001WO-US020116.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 18-JUL-2001; 2001US-00908827.
 PR 06-AUG-2001; 2001US-00924419.
 PR 09-AUG-2001; 2001US-00927796.
 PR 16-AUG-2001; 2001US-00931836.
 PR 19-DEC-2001; 2001US-00028072.

XX (GETH) GENENTECH INC.

XX PA Baker KP, Beresini M, Deforge L, Desnoyers L, Pilvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX WPI; 2003-148238/14.
 DR P-PSDB; ABUS9891.

XX Two hundred and seventy five nucleic acids encoding PRO polypeptides, useful for treating pericyte-associated tumors, diabetes and various bone and/or cartilage disorders, e.g. arthritis.

XX Claim 2; Fig 481; 659pp; English.

XX The invention describes an isolated human PRO polypeptide. The PRO polypeptides are useful in detecting PRO polypeptides in a sample, in linking a bioactive molecule to a cell expressing a PRO polypeptide, and in modulating at least one biological activity of a cell expressing a PRO polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186 stimulate adrenal cortical capillary endothelial growth, and PRO536, PRO943, PRO828, PRO1068 or PRO535, PRO826, PRO819, PRO1126, PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus useful for treating conditions or disorders where angiogenesis would be beneficial, e.g. wound healing and antagonist of this polypeptide are useful for treating cancerous tumors. PRO812 inhibits vascular endothelial growth factor (VEGF) stimulated proliferation of endothelial cells and is thus useful for inhibiting endothelial cell growth in mammals which would be beneficial in inhibiting tumour growth. PRO826, PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of stimulated T-lymphocytes and are therapeutically useful for enhancing immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of retinal neurons cells (PRO1132 is also enhances survival/proliferation of rod photoreceptor cells) and therefore are useful for treating retinal disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813 and PRO11066 induce proliferation of mammalian kidney mesangial cells, and therefore are useful for treating kidney disorders associated with decreased mesangial cell function such as Berger disease or other nephropathies associated with dermatitis, herpeticiformis or Crohn's disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the proliferation and/or redifferentiation of chondrocytes in culture and are thus useful for treating sports injuries, and arthritis. This sequence encodes a novel human PRO protein

XX Sequence 1346 BP; 457 A; 245 C; 237 G; 407 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.:	1.26e-123	Length:	1346
Score:	1102.00	Matches:	212
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	7	Gaps:	0

US-09-989-724-387 (1-212) x ABX89381 (1-1346)

QY	1	MetLeuTTPLeuLeuPhePheLeuValThrAlaIleHieAlaGluLeuCysGlnProGly	20
DB	7	ATGTTGTGGCTGCTCTTTTCTGGGACTGTCATTCGTGTAACCTCTGTAACCAAGGT	66
QY	21	AlaGluAsnAlaPheLysValArgLeuSerIleAtrThrAlaLeuGlyAspLysAlaTyr	40
DB	67	GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT	126
QY	41	AlaTTPAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys	60
DB	127	GCCTGGGATACCAATCAAGATACCTCTTCAAGCGGTAGTCTTTCTCCATGAGAAA	186
QY	61	ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg	80
DB	187	GTTCACACAGAGAGACAGAAATTTCCCATGCTCTACTTTGCAATGTNACCCAGAGG	246
QY	81	ValSerPheTTPPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu	100
DB	247	GTATCATTTCTGGTTTGTGGTTACAGACCTTCAAAAAATCACACCTTCTGCTGTGAG	306
QY	101	ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp	120
DB	307	GTGCAATCAGCCATAGATGAACAGAACCGGATCAACAATGCCTTCTTTCTAAATGAC	366
QY	121	GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal	140
DB	367	CAAACTCTGGATTTTAAAAATCCCTTCACACTTGCACCCACCCATGGACCATCTGTG	426
QY	141	ProIleTTPIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu	160
DB	427	CCCACTCGATTATTATATTTGGTGTGATATTTTGGCATCATCATAGTTGCAATTGCACTA	486
QY	161	LeuIleLeuSerGlyIleTTPGlnArgArgArgLysAsnLysGluProSerGluValAsp	180
DB	487	CTGATTTTATCAGGGATCTGGCAACGCTAGAGAAGAACCAAGAACCATCTGAAGTGGAT	546
QY	181	AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro	200
DB	547	GACGCTGAGATATAGTGTGAAAAACATGATCACAATTGAAAAATGGCATCCCTCTGATCCC	606
QY	201	LeuAspMetLysGlyGlyIleLeuMetMetProSer	212
DB	607	CTGGACATGAAGGGGGGCATATTAATGATGCTTCA	642

Search completed: April 4, 2004, 03:17:30
 Job time : 465 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: April 4, 2004, 00:55:24 ; Search time 113 Seconds
(without alignments)
1041.147 Million cell updates/sec

Title: US-09-989-724-387

Perfect score: 1102

Sequence: 1 MLWLLFLVTAHBLCPG.....ENGIPSDPLMKGILMPS 212

Scoring table:

	BLOSUM62
Xgapop 10.0 , Xgapext 0.5	
Ygapop 10.0 , Ygapext 0.5	
Fgapop 6.0 , Fgapext 7.0	
Delop 6.0 , Delext 7.0	

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO.spool/US09989724/runat_31032004_081141_13314/app_query.fasta_1.391
-DB=Issued Patents NA -OPMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPEL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=pco -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09989724 @CEN 1 1 56 @runat_31032004_081141_13314 -NCFU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA:
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:
5: /cgn2_6/ptodata/2/ina/FACTUS_COMB.seq:
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1064	96.6	848	3	US-08-905-223-27
2	1064	96.6	848	4	US-09-247-155-27
3	1064	96.6	848	4	US-09-663-600A-27
4	1064	96.6	848	4	US-09-621-976-5
5	376	34.1	2415	3	US-08-989-299-3
6	376	34.1	2415	4	US-09-407-427-3
7	376	34.1	3396	3	US-08-989-299-1
8	376	34.1	3396	4	US-10-158-847-141
9	376	34.1	3396	4	US-09-407-427-1
10	359	32.6	2920	4	US-10-158-847-137
11	281	25.5	862	3	US-09-289-349-6
12	233.5	21.2	2350	4	US-09-280-116-40

c

c	13	91	8.3	580073	4	US-08-545-528D-1	Sequence 1, Appli
	14	90	8.2	3136	1	US-08-188-228-41	Sequence 41, Appl
	15	90	8.2	3136	1	US-08-332-638-41	Sequence 41, Appl
	16	89.5	8.1	2550	1	US-08-188-228-53	Sequence 53, Appl
	17	89.5	8.1	2550	1	US-08-332-643-47	Sequence 47, Appl
	18	89.5	8.1	2550	1	US-08-332-638-53	Sequence 53, Appl
	19	89.5	8.1	2550	1	US-08-332-638-53	Sequence 53, Appl
	20	86	7.8	3207	1	US-07-946-497-1	Sequence 1, Appli
	21	86	7.8	3207	1	US-08-483-322-1	Sequence 1, Appli
	22	86	7.8	3207	2	US-08-478-882-1	Sequence 1, Appli
	23	85	7.7	4756	4	US-09-023-655-1461	Sequence 1461, Ap
	24	83.5	7.6	5117	3	US-08-854-585-1	Sequence 1, Appli
	25	83.5	7.6	5117	4	US-09-447-533-1	Sequence 1, Appli
	26	83.5	7.6	5117	5	PCT-US95-05512-1	Sequence 1, Appli
	27	83	7.5	1830121	4	US-09-557-884-1	Sequence 1, Appli
	28	83	7.5	1830121	4	US-09-643-990A-1	Sequence 1, Appli
	29	82.5	7.5	1590	4	US-09-134-000C-2543	Sequence 2543, Ap
	30	81.5	7.4	5717	4	US-09-023-655-1333	Sequence 1333, Ap
	31	80	7.3	87563	4	US-09-453-702B-57	Sequence 57, Appl
	32	78.5	7.1	1761	4	US-09-404-879A-387	Sequence 387, App
	33	78.5	7.1	2608	4	US-09-404-879A-386	Sequence 386, App
	34	78.5	7.1	2996	4	US-09-404-879A-311	Sequence 311, App
	35	78.5	7.1	2996	4	US-09-338-933-311	Sequence 311, App
	36	78.5	7.1	3581	2	US-08-738-349-1	Sequence 1, Appli
	37	78.5	7.1	11288	3	US-08-646-301A-1	Sequence 1, Appli
	38	78.5	7.1	11288	4	US-08-481-968A-4	Sequence 4, Appli
	39	78.5	7.1	11288	4	US-08-154-712B-4	Sequence 4, Appli
	40	78.5	7.1	15056	4	US-09-474-699-10	Sequence 10, Appl
	41	77.5	7.0	15894	1	US-08-348-891A-1	Sequence 1, Appli
	42	77.5	7.0	15894	1	US-08-905-817-1	Sequence 1, Appli
	43	77	7.0	1664976	4	US-08-916-421B-1	Sequence 1, Appli
	44	76.5	6.9	960	4	US-09-134-000C-1545	Sequence 1545, Ap
	45	76	6.9	1728	4	US-09-096-731A-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-08-905-223-27
; Sequence 27, Application US/08905223
; Patent No. 6222029
; GENERAL INFORMATION:
; APPLICANT: Edwards, Jean-Baptiste D.
; APPLICANT: Duclert, Aymeric
; APPLICANT: Lacroix, Bruno
; TITLE OF INVENTION: 5' ESTs FOR SECRETED PROTEINS
; NUMBER OF SEQUENCES: 503
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe, Martens, Olson & Bear
; STREET: 501 West Broadway
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92101-3505
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Win95
; SOFTWARE: Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/905,223
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelson, Ned A.
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 848 base pairs

;; TYPE: NUCLEIC ACID
;; STRANDEDNESS: DOUBLE
;; TOPOLOGY: LINEAR
;; MOLECULE TYPE: CDNA
;; ORIGINAL SOURCE:
;; ORGANISM: Homo Sapiens
;; DEVELOPMENTAL STAGE: Fetal
;; TISSUE TYPE: Kidney
;; FEATURE:
;; NAME/KEY: sig_peptide
;; LOCATION: 32..73
;; IDENTIFICATION METHOD: Von Heijne matrix
;; OTHER INFORMATION: score 10.7
;; OTHER INFORMATION: seq LWWLFFLVTAIHA/EL
US-09-905-223-27

Alignment Scores:
Pred. No.: 7,81e-129 Length: 848
Score: 1064.00 Matches: 208
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 4
Query Match: 96.55% Indels: 1
DB: 3 Gaps: 0

US-09-989-724-387 (1-212) x US-08-905-223-27 (1-848)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 32 ATGTTGTGGCTGCTCTTTTCTGGTGACTGCCATTGCTGAATCTGTCAACCGGT 91
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 92 GCAGAAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT 151
QY 41 AlaTrpAspThrAsnGluGlyTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 152 GCCTGGGATACCATGAGATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA 211
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 212 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACCCAGAGG 271
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrIleuProIleValGlu 100
DB 272 GTATCATTTCTGGTTGTGTTTACAGACCCCTTCAAAAAATTCACACCCCTCTCTCTGTGTAG 331
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 332 GTGCATCAGCCATGAGATGAGAACAGAACCCGATCAACATGCTTTCTTCTAATGAC 391
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 392 CAACCTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCATCGCATCTGTG 451
QY 141 ProlleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 452 CCCATCTGGATTAATATATTTGGTGTGATATTTTGCATCATCATATGTCATTCGACTA 511
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
DB 512 CTGATTTTATCAGGATCTGGCAGCTGADAPAAAGAACAAAGAACCATCTGAGTGGAT 571
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 572 GACGCTGAARATAAATGTGAAACATGATCACAATTTGAAATGGCATCCCTCTGATCCC 631
QY 201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
DB 632 CTGGCATGAGGGGGCATTAATATGATGCTTCA 668

RESULT 2

US-09-247-155-27

; Sequence 27, Application US/09247155A

;; Patent No. 6312922
;; GENERAL INFORMATION:
;; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
;; APPLICANT: Duclert, Aymeric
;; APPLICANT: Bouqueleret, Lydie
;; TITLE OF INVENTION: Complementary DNAs
;; FILE REFERENCE: GENSET.021A
;; CURRENT APPLICATION NUMBER: US/09/247,155A
;; EARLIER FILING DATE: 1999-02-09
;; EARLIER APPLICATION NUMBER: 60/074,121
;; EARLIER FILING DATE: 1998-02-09
;; EARLIER APPLICATION NUMBER: 60/081,563
;; EARLIER FILING DATE: 1998-04-13
;; EARLIER APPLICATION NUMBER: 60/096,116
;; EARLIER FILING DATE: 1998-08-10
;; EARLIER APPLICATION NUMBER: 60/099,273
;; EARLIER FILING DATE: 1998-10-04
;; NUMBER OF SEQ ID NOS: 182
;; SOFTWARE: Patent.pm
;; SEQ ID NO 27
;; LENGTH: 848
;; TYPE: DNA
;; ORGANISM: Homo Sapiens
;; FEATURE:
;; NAME/KEY: sig_peptide
;; LOCATION: 32..73
;; OTHER INFORMATION: Von Heijne matrix
US-09-247-155-27

Alignment Scores:
Pred. No.: 7,81e-129 Length: 848
Score: 1064.00 Matches: 208
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 4
Query Match: 96.55% Indels: 1
DB: 4 Gaps: 0

US-09-989-724-387 (1-212) x US-09-247-155-27 (1-848)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 32 ATGTTGTGGCTGCTCTTTTCTGGTGACTGCCATTGCTGAATCTGTCAACCGGT 91
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 92 GCAGAAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT 151
QY 41 AlaTrpAspThrAsnGluGlyTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 152 GCCTGGGATACCATGAGATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA 211
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 212 GTTCCCAACAGAGAAGCAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACCCAGAGG 271
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrIleuProIleValGlu 100
DB 272 GTATCATTTCTGGTTGTGTTTACAGACCCCTTCAAAAAATTCACACCCCTCTCTCTGTGTAG 331
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 332 GTGCATCAGCCATGAGATGAGAACAGAACCCGATCAACATGCTTTCTTCTAATGAC 391
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 392 CAACCTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCATCGCATCTGTG 451
QY 141 ProlleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 452 CCCATCTGGATTAATATATTTGGTGTGATATTTTGCATCATCATATGTCATTCGACTA 511
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180

```
Db 512 CTGATTTTATCAGGGATCTGCAAGTADARAAAGAACCAAGACCATCTGAAGTGGAT 571
Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 572 GACGCTGAARATAAATGTGAATAACATGATCAATTTGAATGGCATCCCTCTGATCCC 631
Qy 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
Db 632 CTGGACATGAAGGGGGGCATATTAATGATGCCTTCA 668

RESULT 3
US-09-663-600A-27
; Sequence 27, Application US/09663600A
; Patent No. 6573068
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bougueret, Lydie
; TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
; FILE REFERENCE: 31.US3.CIP
; CURRENT APPLICATION NUMBER: US/09/663,600A
; CURRENT FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: 09/191,997
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: 60/066,677
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/069,957
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/074,121
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/081,563
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: 60/096,116
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/099,273
; PRIOR FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: Patent.pm
; SEQ ID NO 27
; LENGTH: 848
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 32..73
; OTHER INFORMATION: Von Heijne matrix
US-09-663-600A-27

Alignment Scores:
Pred. No.: 7,81e-129 Length: 848
Score: 1064.00 Matches: 208
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 4
Query Match: 96.55% Indels: 1
DB: 4 Gaps: 0

US-09-989-724-387 (1-212) x US-09-663-600A-27 (1-848)
Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 32 ATGTGTGGCTGCTCTTTTCTGGTACTGCCATTTCATGCTGAACTCTGTCAACCAAGGT 91
Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 92 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT 151
Qy 41 AlaTrpAspThrAsnGluGluTyrlleuphelysAlaMetValAlaPheSerMetArgLys 60
Db 152 GCCTGGGATACCAATGAAGATACCTCTCAAGCGGATGGTAGCTTTCTCCATGAGAAA 211
Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 212 GTTCCCAACAGAGAAGCAAGAAATTTCCCATGTCTTACTTTTGCATATGTAACCCAGAG 271
```

```
Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrIleuProAlaValGlu 100
Db 272 GTATCATTTCTGGTTGTGGTTTACAGACCTTTCAAAAAATCACACCTTCTCTGCTGTGAG 331
Qy 101 ValGlnSerAlaIleAtrqMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db 332 GTGCATCAGCCATAAGAAATGAACAGAACCGATCAACATATGCTTCTTTTAAATGAC 391
Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrIleuAlaProProMetAspProSerVal 140
Db 392 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACACCCACCCATCTGTG 451
Qy 141 ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
Db 452 CCCATCTGGATTATTTATTTGGTGTGATATTTTGCATCATCATATGTTGCAATTGCACTA 511
Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
Db 512 CTGATTTTATCAGGATCTGGCACTADARAAAGAACCAAGACCATCTGAAGTGGAT 571
Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 572 GACGCTGAARATAAATGTGAATAACATGATCAATTTGAATGGCATCCCTCTGATCCC 631
Qy 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
Db 632 CTGGACATGAAGGGGGGCATATTAATGATGCCTTCA 668

RESULT 4
US-09-621-976-5
; Sequence 5, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5
; LENGTH: 848
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 32..697
; NAME/KEY: sig_peptide
; LOCATION: 32..73
; OTHER INFORMATION: Von Heijne matrix
US-09-621-976-5

Alignment Scores:
Pred. No.: 7,81e-129 Length: 848
Score: 1064.00 Matches: 208
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 4
Query Match: 96.55% Indels: 1
DB: 4 Gaps: 0

US-09-989-724-387 (1-212) x US-09-621-976-5 (1-848)
Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 32 ATGTGTGGCTGCTCTTTTCTGGTACTGCCATTTCATGCTGAACTCTGTCAACCAAGGT 91
Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 92 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT 151
```

Qy 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 152 GCCTGGGATACCAATGAAGATACCTCTCTAAAGCGATGCTAGCTTTCTCCATGAGAAA 211
Qy 61 ValProAsnArgGluAlaThrGluLeuSerHisValLeuLysCysAsnValThrGlnArg 80
Db 212 GTTCCCAACAGAGAGAACAGAAATTTCCCATGTCCTACTTGGCAATGTAAACCCGAGG 271
Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 272 GTATCATCTCGTTTGTGTGTACAGACCTTCAAAAAATCACCCTTCTCTGCTGCTGAG 331
Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgLysAlaMetValAlaPheSerMetArgLys 120
Db 332 GTGCAATCAGCCATAAGAAATGAACAGAACCGGATCAACAATGCTTCTTCTTAATGAC 391
Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal 140
Db 392 CAACCTCTGGAAATTTTAAATAATCCCTTCCACACTTGCACACCCATGACCCATCTGTG 451
Qy 141 ProLeuTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
Db 452 CCCATCTGGATATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCACATA 511
Qy 161 LeuLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
Db 512 CTGATTTTATCAGGATCTGGCAAGTADAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 571
Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 572 GACGCTGAATATAAATGTGAAGAAACATGATCAATGTGAAGAAAGGATCCCTCTGATCCC 631
Qy 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
Db 632 CTGGACATGAAGGAGGGGCATATTAATGATGCTTCA 668

RESULT 5

US-08-989-299-3

; Sequence 3, Application US/08989299

; Patent No. 6194556

; GENERAL INFORMATION:

; APPLICANT: Acton, Susan L.

; APPLICANT: Robinson, Keith E.

; TITLE OF INVENTION: ANGIOTENSIN CONVERTING ENZYME HOMOLOG

; TITLE OF INVENTION: AND THERAPEUTIC AND DIAGNOSTIC USES THEREFOR

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: FOLEY, HOAG & ELLIOT LLP

; STREET: One Post Office Square

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02109-2170

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/989,299

; FILING DATE: 11-DEC-1997

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Arnold E., Beth

; REGISTRATION NUMBER: 35,430

; REFERENCE/DOCKET NUMBER: MIA-025.01

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-832-1000

; TELEFAX: 617-832-7000

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2415 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-08-989-299-3

Alignment Scores: 1,31e-38 Length: 2415
Pred. No.: 376.00 Matches: 79
Percent Similarity: 67.27% Conservative: 32
Best Local Similarity: 47.88% Mismatches: 48
Query Match: 34.12% Indels: 6
Gaps: 3

US-09-989-724-387 (1-212) x US-08-989-299-3 (1-2415)

Qy 19 ProGlyAlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLys 38
Db 1834 CCATATGACAGACCAAGCATCAAGTGAAGGATAGCCTTAAATCAGCTTCGAGATAAA 1893
Qy 39 AlaTrpAlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMet 58
Db 1894 GCATATGAATGGAACGACATCAATGAAATGTACCTGTTCGATCATCTGTTGCATATGCTATG 1953
Qy 59 Arg-----LysValProAsnArgGluAlaThr---GluIleSerHisValLeu 73
Db 1954 AGGCAGTACTTTTAAAGATGAAATCAAGATGATCTTTTGGGGAGGAGGATGTGCGA 2013
Qy 74 LeuCysAsnValThrGlnArgValSerPheTrpPheValValThrAspProSerLys--- 92
Db 2014 GTGGCTAATTTGAACCAAGATCTCCTTTAATTTCTTGTGACCTGCACCTAAATATGTG 2073
Qy 93 AsnHisThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLysAsnArgLys 112
Db 2074 TCTGATATCATCTCTAGAACTGAAGTTGAAAGGCCATCAGGATGTCCGAGCGCGTATC 2133
Qy 113 AsnAsnAlaPhePheLeuAsnAspGlnThrLeuGluPheLeuLysIleProSerThrLeu 132
Db 2134 AATGATGCTTTTCCGTCTGAATGACCAACAGCCCTAGAGTTTCTGGGATACAGCCACACCT 2193
Qy 133 AlaProMetAspProSerValProIleIleIleIleIlePheGlyValIlePheCys 152
Db 2194 GGACCTCTCAACAGCCCTGTTTCCATATGCTGATGTTTGGAGTTGTGATGGGA 2253
Qy 153 IleIleIleValAlaIleAlaLeuLeuIleLeuSerGlyIleTrpGlnArgArgLys 172
Db 2254 GTGATAGTGTGGCATGTCTGATCTGATCTTCACTGGGATCAGAGATCGAAGAGAAA 2313
Qy 173 AsnLysGluProSer 177
Db 2314 AATAAGCAGCAAGT 2328

RESULT 6

US-09-407-427-3

; Sequence 3, Application US/09407427

; Patent No. 6610497

; GENERAL INFORMATION:

; APPLICANT: Acton, Susan L.

; APPLICANT: Robinson, Keith E.

; TITLE OF INVENTION: ANGIOTENSIN CONVERTING ENZYME HOMOLOG AND THERAPEUTIC

; TITLE OF INVENTION: AND DIAGNOSTIC USES THEREFOR

; FILE REFERENCE: MNI-132CF2

; CURRENT APPLICATION NUMBER: US/09/407,427

; PRIOR FILING DATE: 1999-09-29

; PRIOR APPLICATION NUMBER: 09/163,648

; PRIOR FILING DATE: 1998-09-30

; PRIOR APPLICATION NUMBER: 08/989,299

; PRIOR FILING DATE: 1997-12-11

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: Patent In Ver. 2.0

; SEQ ID NO 3

; LENGTH: 2415

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-407-427-3

Alignment Scores:

Pred. No.: 1,31e-38 Length: 2415
Score: 376.00 Matches: 79
Percent Similarity: 67.27% Conservative: 32
Best Local Similarity: 47.88% Mismatches: 48
Query Match: 34.12% Indels: 6
DB: 4 Gaps: 3

US-09-989-724-387 (1-212) x US-09-407-427-3 (1-2415)

QY 19 ProGlyAlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLys 38
DB 1834 CCATATGACGACCAAGCATCAAGTGAGGATAAGCTAAATCAGCTCTTGGAGATAAA 1893
QY 39 AlaTyAlaTyrAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMet 58
DB 1894 GCATATGAATGGACGACATGAATGTACCTGTTCCGATCATCTGTTCATATGCTATG 1953
QY 59 Arg-----LysValProAsnArgGluAlaThr---GluIleSerHisValLeu 73
DB 1954 AGGCAGTACTTTTAAAGATAAGATAATCAGATGATCTTTTGGGAGGAGGATGCGA 2013
QY 74 LeuCysAsnValThrGlnArgValSerPheTrpPheValValThrAspProSerLys--- 92
DB 2014 GTGGCTAAATTTGAAACCAAGAAATCTCTTTAAATTTCTTGTCTCACTGCACCTAA 2073
QY 93 AsnHisThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLysAsnArgIle 112
DB 2074 TCTGATATCATCTTCTAGACTGAGTTGAAAGCCATCAGATGTCCCGAGCCGATATC 2133
QY 113 AsnAsnAlaPhePheLeuAsnAspGlnThrLeuGluPheLeuLysIleProSerThrLeu 132
DB 2134 AATGATGCTTTCGGTCTGAATCACAACAGCCCTAGAGTTTCTGGGATACAGCCACACTT 2193
QY 133 AlaProMetAspProSerValProIleTrpIleIlePheGlyValIlePheCys 152
DB 2194 GGACCTCTCAACAGCCCTCTTCCATATGCTGATGTTTGTGGAGTTGTGATGGA 2253
QY 153 IleIleIleValAlaIleAlaLeuLeuIleLeuSerGlyIleTrpGlnArgArgLys 172
DB 2254 GTGATAGTGGTGGATGTCATCTCTGATCTTCTCACTGGATCAGAGATCGGAGAGA 2313
QY 173 AsnLysGluProSer 177
DB 2314 AATAAAGCAAGAAAT 2328

RESULT 7

US-08-989-299-1

Sequence 1, Application US/08989299
Patent No. 6194556

GENERAL INFORMATION:

APPLICANT: Acton, Susan L.
APPLICANT: Robinson, Keith E.
TITLE OF INVENTION: ANGIOGENIN CONVERTING ENZYME HOMOLOG
TITLE OF INVENTION: AND THERAPEUTIC AND DIAGNOSTIC USES THEREFOR
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY, HOAG & ELLIOT LLP
STREET: One Post Office Square
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109-2170
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/989,299
FILING DATE: 11-DEC-1997

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:
NAME: Arnold E. Beth
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: MIA-025.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-832-1000
TELEFAX: 617-832-7000
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3396 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 82..2496
US-08-989-299-1

Alignment Scores:

Pred. No.: 2,21e-38 Length: 3396
Score: 376.00 Matches: 79
Percent Similarity: 67.27% Conservative: 32
Best Local Similarity: 47.88% Mismatches: 48
Query Match: 34.12% Indels: 6
DB: 3 Gaps: 3

US-09-989-724-387 (1-212) x US-08-989-299-1 (1-3396)

QY 19 ProGlyAlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLys 38
DB 1915 CCATATGACGACCAAGCATCAAGTGAGGATAAGCTAAATCAGCTCTTGGAGATAAA 1974
QY 39 AlaTyAlaTyrAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMet 58
DB 1975 GCATATGAATGGACGACATGAATGTACCTGTTCCGATCATCTGTTCATATGCTATG 2034
QY 59 Arg-----LysValProAsnArgGluAlaThr---GluIleSerHisValLeu 73
DB 2035 AGGCAGTACTTTTAAAGATAAGATAATCAGATGATCTTTTGGGAGGAGGATGCGA 2094
QY 74 LeuCysAsnValThrGlnArgValSerPheTrpPheValValThrAspProSerLys--- 92
DB 2095 GTGGCTAAATTTGAAACCAAGAAATCTCTTTAAATTTCTTGTCTCACTGCACCTAAA 2154
QY 93 AsnHisThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLysAsnArgIle 112
DB 2155 TCTGATATCATCTCTAGAACTGAAGTTGAAAGCCATCAGATGTCCCGAGCCGATATC 2214
QY 113 AsnAsnAlaPhePheLeuAsnAspGlnThrLeuGluPheLeuLysIleProSerThrLeu 132
DB 2215 AATGATGCTTTCGGTCTGAATGACAACAGCCCTAGAGTTTCTGGGATACAGCCACACTT 2274
QY 133 AlaProMetAspProSerValProIleTrpIleIleIlePheGlyValIlePheCys 152
DB 2275 GGACCTCTCAACAGCCCTCTTCCATATGCTGATGTTTGTGGAGTTGTGATGGA 2334
QY 153 IleIleIleValAlaIleAlaLeuLeuIleLeuSerGlyIleTrpGlnArgArgLys 172
DB 2335 GTGATAGTGGTGGCATTTGTCATCTCTGATCTTCACTGGATCAGAGATCGGAGAGAAA 2394
QY 173 AsnLysGluProSer 177
DB 2395 AATAAAGCAAGAAAT 2409

RESULT 8

US-10-158-847-141
Sequence 141, Application US/10158847
Patent No. 6592865
GENERAL INFORMATION:
APPLICANT: Tom Parry et al.
TITLE OF INVENTION: Method and Compositions for Modulating ACB-2 Activity

FILE REFERENCE: PF557
CURRENT APPLICATION NUMBER: US/10/158,847
PRIOR FILING DATE: 2002-06-03
PRIOR APPLICATION NUMBER: 60/295,004
PRIOR FILING DATE: 2001-06-04
NUMBER OF SEQ ID NOS: 158
SOFTWARE: Patent version 3.1
SEQ ID NO 141
LENGTH: 3396
TYPE: DNA
ORGANISM: homo sapiens
US-10-158-847-141

Alignment Scores:
Pred. No.: 2,21e-38 Length: 3396
Score: 376.00 Matches: 79
Percent Similarity: 67.27% Conservative: 32
Best Local Similarity: 47.88% Mismatches: 48
Query Match: 34.12% Indels: 6
DB: Gaps: 3

US-09-989-724-387 (1-212) x US-10-158-847-141 (1-3396)

QY 19 ProGlyValAlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLys 38
DB 1915 CCATATGCGACCAAGCATCAAGTGAGGATGAAGCTTAATATCAGCTCTTGGAGATAAA 1974
QY 39 AlaTyrAlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMet 58
DB 1975 GCATATGAATGGAACGACCAATGAATGATACCTGCTCCGATCATCTGTTCATATGCTATG 2034
QY 59 Arg-----LysValProAsnArgGluAlaThr---GluIleSerHisValLeu 73
DB 2035 AGGCAGTACTTTTAAAGTAAATAATCAGATGATCTTTTGGGAGGAGGATGCGGA 2094
QY 74 LeuCyAsnValThrGlnArgValSerPheTrpPheValValThrAspProSerLys--- 92
DB 2095 GTGGCTAATTTGAACCAAGATCTCTTTAATTTCTTGTCTACCTGACCTAAATAATGTG 2154
QY 93 AsnHisThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLysAsnArgIle 112
DB 2155 TCTGATATCATCTAGAACTGAAGTTGAAAGGCCATCAGGATGTCCCGAGCCGTATC 2214
QY 113 AsnAsnAlaPhePheLeuAsnAspGlnThrLeuGluPheLeuLysIleProSerThrLeu 132
DB 2215 AATGATGCTTTCGCTGTAATGACAAAGCCTAGAGTTTCTGGGGATACAGCCAAACACTT 2274
QY 133 AlaProProMetAspProSerValProIleIleIlePheGlyValIlePheCys 152
DB 2275 GGACCTCCTAACAGCCCTCTTTCCATATGGCTGATTTTGGAGTTGTGATGCGGA 2334
QY 153 IleIleIleValAlaIleAlaLeuLeuLeuLeuLeuSerGlyIleTrpGlnArgArgLys 172
DB 2335 GTGATAGTGTGGCATTTGTCATCTCTGATCTTCCACTGGGATCAGAGATCGGAAGAGAAA 2394
QY 173 AsnLysGluProSer 177
DB 2395 AATAAAGCAAGAAGT 2409

RESULT 9

US-09-407-427-1
Sequence 1, Application US/09407427
Patent No. 6610497
GENERAL INFORMATION:
APPLICANT: Acton, Susan L.
TITLE OF INVENTION: ANGIOTENSIN CONVERTING ENZYME HOMOLOG AND THERAPEUTIC
TITLE OF INVENTION: AND DIAGNOSTIC USES THEREFOR
FILE REFERENCE: MNI-132CP2
CURRENT APPLICATION NUMBER: US/09/407,427
PRIOR FILING DATE: 1999-09-29
NUMBER OF SEQ ID NOS: 09/163,648
PRIOR FILING DATE: 1998-09-30

PRIOR APPLICATION NUMBER: 08/989,299
PRIOR FILING DATE: 1997-12-11
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patent in Ver. 2.0
SEQ ID NO 1
LENGTH: 3396
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (82)..(2496)
US-09-407-427-1

Alignment Scores:
Pred. No.: 2,21e-38 Length: 3396
Score: 376.00 Matches: 79
Percent Similarity: 67.27% Conservative: 32
Best Local Similarity: 47.88% Mismatches: 48
Query Match: 34.12% Indels: 6
DB: Gaps: 3

US-09-989-724-387 (1-212) x US-09-407-427-1 (1-3396)

QY 19 ProGlyValAlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLys 38
DB 1915 CCATATGCGACCAAGCATCAAGTGAGGATGAAGCTTAATATCAGCTCTTGGAGATAAA 1974
QY 39 AlaTyrAlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMet 58
DB 1975 GCATATGAATGGAACGACCAATGAATGATACCTGCTCCGATCATCTGTTCATATGCTATG 2034
QY 59 Arg-----LysValProAsnArgGluAlaThr---GluIleSerHisValLeu 73
DB 2035 AGGCAGTACTTTTAAAGTAAATAATCAGATGATCTTTTGGGAGGAGGATGCGGA 2094
QY 74 LeuCyAsnValThrGlnArgValSerPheTrpPheValValThrAspProSerLys--- 92
DB 2095 GTGGCTAATTTGAACCAAGATCTCTTTAATTTCTTGTCTACCTGACCTAAATAATGTG 2154
QY 93 AsnHisThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLysAsnArgIle 112
DB 2155 TCTGATATCATCTAGAACTGAAGTTGAAAGGCCATCAGGATGTCCCGAGCCGTATC 2214
QY 113 AsnAsnAlaPhePheLeuAsnAspGlnThrLeuGluPheLeuLysIleProSerThrLeu 132
DB 2215 AATGATGCTTTCGCTGTAATGACAAAGCCTAGAGTTTCTGGGGATACAGCCAAACACTT 2274
QY 133 AlaProProMetAspProSerValProIleIleIlePheGlyValIlePheCys 152
DB 2275 GGACCTCCTAACAGCCCTCTTTCCATATGGCTGATTTTGGAGTTGTGATGCGGA 2334
QY 153 IleIleIleValAlaIleAlaLeuLeuLeuLeuLeuSerGlyIleTrpGlnArgArgLys 172
DB 2335 GTGATAGTGTGGCATTTGTCATCTCTGATCTTCCACTGGGATCAGAGATCGGAAGAGAAA 2394
QY 173 AsnLysGluProSer 177
DB 2395 AATAAAGCAAGAAGT 2409

RESULT 10

US-10-158-847-137
Sequence 137, Application US/10158847
Patent No. 6592865
GENERAL INFORMATION:
APPLICANT: Tom Parry et al.
TITLE OF INVENTION: Method and Compositions for Modulating ACE-2 Activity
FILE REFERENCE: PF557
CURRENT APPLICATION NUMBER: US/10/158,847
CURRENT FILING DATE: 2002-06-03
PRIOR APPLICATION NUMBER: 60/295,004
PRIOR FILING DATE: 2001-06-04
NUMBER OF SEQ ID NOS: 158
SOFTWARE: Patent in version 3.1

SEQ ID NO 137
LENGTH: 2920
TYPE: DNA
ORGANISM: homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (1707)..(1707)
OTHER INFORMATION: n equals any amino acid
FEATURE:
NAME/KEY: misc feature
LOCATION: (2749)..(2749)
OTHER INFORMATION: n equals any amino acid
FEATURE:
NAME/KEY: misc feature
LOCATION: (2757)..(2757)
OTHER INFORMATION: n equals any amino acid
FEATURE:
NAME/KEY: misc feature
LOCATION: (2789)..(2789)
OTHER INFORMATION: n equals any amino acid
FEATURE:
NAME/KEY: misc feature
LOCATION: (2819)..(2819)
OTHER INFORMATION: n equals any amino acid
FEATURE:
NAME/KEY: misc feature
LOCATION: (2835)..(2835)
OTHER INFORMATION: n equals any amino acid
FEATURE:
NAME/KEY: misc feature
LOCATION: (2856)..(2856)
OTHER INFORMATION: n equals any amino acid
US-10-158-847-137

Alignment Scores:
Pred. No.: 2,86e-36 Length: 2920
Score: 359.00 Matches: 75
Percent Similarity: 67.30% Conservative: 32
Best Local Similarity: 47.17% Mismatches: 46
Query Match: 32.58% Indels: 6
DB: 4 Gaps: 3

US-09-989-724-387 (1-212) x US-10-158-847-137 (1-2920)

Qy 19 ProGlyAlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLys 38
Db 1863 CCATATGACAGACCAAGCATCAAAAGTGAAGTAAAGCTTAAATCAGCTCTTTGGAGATAA 1922
Qy 39 AlaTyrAlaTyrAspThrAsnGluGlyLysValPheLysAlaMetValAlaPheSerMet 58
Db 1923 GCATATGAATGAACGACGATGAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1982
Qy 59 Arg-----LysValProAsnArgGluAlaThr---GluIleSerHisValLeu 73
Db 1983 AGGCAGTACTTTTAAAGTAAATAAATCAGATGATCTTTTGGGAGGAGGATGCGA 2042
Qy 74 LeuCysAsnValThrGlnArgValSerPheTrpPheValValThrAspProSerLys--- 92
Db 2043 GTGGCTAATTTGAACCAAGAAATCTCTTTAAATTTCTTTGCTGCTGCTGCTGCTGCTGCTG 2102
Qy 93 AsnHisThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLysAsnArgIle 112
Db 2103 TCTGATATCATCTCTAGACTGAAGTGAAGGCAATCAGATGTTCCCGAGCGGCTATC 2162
Qy 113 AsnAsnAlaPhePheLeuAsnAspGlnThrLeuGluPheLeuLysIleProSerThrLeu 132
Db 2163 AATGATGCTTTCCGTCGATGACGACGACCTAGAGTTTCTGGGGATACAGCCACACTT 2222
Qy 133 AlaProProMetAspProSerValProIleTrpIlellePheGlyValIlePheCys 152

Db 2223 GGACCTCTTAACAGCCCTCTTCCATATGCTGATGTTTGGAGTGTGTGAGGGA 2282
Qy 153 IleIleIleValAlaIleAlaLeuIleLeuSerGlyIleTrpGlnArgArgArg 171
Db 2283 GTGATAGTGGTGGCAITGTCTATCTCTGATCTTCACTGGGATCAGAGATCGAGAAG 2339
RESULT 11
US-09-289-349-6
; Sequence 6, Application US/09289349
; Patent No. 6277574
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael, G.
; APPLICANT: Vollmuth, Wayne
; APPLICANT: Klingner, Tod, M.
; APPLICANT: Azimzai, Valda
; APPLICANT: Yue, Henry
; TITLE OF INVENTION: GENES ASSOCIATED WITH DISEASES OF THE KIDNEY
; FILE REFERENCE: PB-0010 US
; CURRENT APPLICATION NUMBER: US/09/289,349
; CURRENT FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 6
; LENGTH: 862
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: 2580580CT1
US-09-289-349-6

Alignment Scores:
Pred. No.: 6.21e-27 Length: 862
Score: 281.00 Matches: 57
Percent Similarity: 98.28% Conservative: 0
Best Local Similarity: 98.28% Mismatches: 0
Query Match: 25.50% Indels: 1
DB: 3 Gaps: 0

US-09-989-724-387 (1-212) x US-09-289-349-6 (1-862)

Qy 156 ValAlaIleAlaLeuLeuIleLeuSerGlyIleTrpGlnArgArgArgLysGlu 175
Db 1 GTTCAATTCACCTACTGATTTTATCAGGGATCTGGCAACGTAGAAGAAGAACAAAGAA 60
Qy 176 ProSerGluValAspAspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGly 195
Db 61 CCATCTGAGTGGATGACCTGAGATGATGTTGAAACATGATCCTCAATTTGAAATGGC 120
Qy 196 IleProSerAspProLeuAspMetLysGly-GlyIleLeuMetMetProSer 212
Db 121 ATCCCTCTGATCCCTGGACATGAAGGGAGGCATATTAATGATGCTCTCA 172

RESULT 12

US-09-280-116-40/c
; Sequence 40, Application US/09280116A
; Patent No. 6331427
; GENERAL INFORMATION:
; APPLICANT: Robison, Keith E.

; TITLE OF INVENTION: Nucleic Acid Molecules Encoding Human Protease Homologs
; FILE REFERENCE: 5800-24, 035800/176965
; CURRENT APPLICATION NUMBER: US/09/280,116A
; CURRENT FILING DATE: 1999-03-26
; NUMBER OF SEQ ID NOS: 268
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40
; LENGTH: 2350
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: angiotensin-converting enzyme
US-09-280-116-40

Alignment Scores:
Pred. No.: 4,39e-20 Length: 2350
Score: 233.50 Matches: 61
Percent Similarity: 62.86% Conservative: 27
Best Local Similarity: 43.52% Mismatches: 37
Query Match: 21.19% Indels: 16
DB: 4 Gaps: 4

US-09-989-724-387 (1-212) x US-09-280-116-40 (1-2350)

QY 10 ThrAlaIleHisAlaGluLeuCysGlnProGlyAlaGluAsnAlaPheLysValArgLeu 29
DB 435 ACTGGAGTCATATGAG-----ACCAAGACATCAAGTGAAGATA 394
QY 30 -SerileArgThrAlaLeuGlyAspLysAlaTyralaTrpAspThrAsnGluGluTyrLe 49
DB 393 AAGCCTAAATCAGCTCTTGGAGATAAGCATATGAATGAACGACATGAATGTACCT 334
QY 49 uPheLysAlaMetValAlaPheSerMetArg-----LysValProAsnArgG 65
DB 333 GTTCCGATCATCTGTTCATATGCTATGAGCGAGTACTTTTAAAGATAAAGTAAATCAGCA 274
QY 65 uAlaThrGluIleSerHis-----ValLeuLeuCysAsnValThrGlnArgValSerPh 83
DB 273 TGNATCTTT-TTGGGAGGAGGAGTGTGCGAGTGGCTATTTGAAACCAAGATCTCCTT 215
QY 83 eTrpPhe-ValValThrAspProSerLys---AsnHisThrLeuProAlaValGluValG 102
DB 214 TAATTTCTTTGGTCACTGCCCTTAAATAATGTGTCTGATATCATCTCTAGAACTGAAGTTG 155
QY 102 InSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAspGlnT 122
DB 154 AAAGGCCATCAGAGTGTCCGGAGCGCTGATCAATGATCTTCCGCTGTAATGACAA 95
QY 122 hrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 94 GCTAGAGTTCTGGGATACAGCAACACTTGGACCTCTTAACACGCCCTCTT 39

RESULT 13

US-08-545-528D-1/c
; Sequence 1, Application US/08545528D
; Patent No. 6537773
; GENERAL INFORMATION:
; APPLICANT: Fraser et al.
; TITLE OF INVENTION: Nucleotide Sequence of the Mycoplasma Genitalium Genome, Fragment
; PATENT NO. 6537773
; FILE REFERENCE: PB193P1
; CURRENT APPLICATION NUMBER: US/08/545,528D
; PRIOR FILING DATE: 1995-10-19
; PRIOR APPLICATION NUMBER: US 08/488,018
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: US 08/473,545
; PRIOR FILING DATE: 1995-06-07
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 580073
; TYPE: DNA
; ORGANISM: Mycoplasma genitalium
US-08-545-528D-1

Alignment Scores:
Pred. No.: 716 Length: 580073
Score: 91.00 Matches: 53
Percent Similarity: 43.52% Conservative: 31
Best Local Similarity: 27.46% Mismatches: 60
Query Match: 8.26% Indels: 50
DB: 4 Gaps: 10

US-09-989-724-387 (1-212) x US-08-545-528D-1 (1-580073)

QY 1 MetLeuTrpLeuPhePheLeuValThrAlaIleHisAlaGluLeuCys----- 17

DB 233802 ATCATTTGGTTAAATTAACAGTCTCTTAAC-----GTTCAAGGTGAACATGTTGGTTAAATT 233746
QY 18 -----GlnProGlyAlaGluAsnAlaPheLysValArgLeuSerIleArgThr 33
DB 233745 TGTCTTAAGAACAAACCGCAAAATAATTCGCTTTTAACTGTGTTTTTAAATTTAGG--- 233689
QY 34 AlaLeuGlyAspLysAlaTyralaTrpAspThrAsnGluGluTyrLeuPheLysAlaMet 53
DB 233688 -----GGAACCTTAAAAAAGTCATGTTAAACACACTACTTTTTTGTGTTTTAAAGGTT 233635
QY 54 ValAlaPheSerMetArgLysValProAsnArgGluAlaThrGluIleSerHisValLeu 73
DB 233634 TTGGTTTTT-----AAAAGTACCCCAAGTCTTTTGTCTAAAAGATTAAGCT-ATCAAG 233582
QY 74 LeuCysAsnValThrGlnArgValSerPheTrpPheValValThrAspProSer----- 91
DB 233581 ATCTGCTCT-----GTTAGTGGGGTTTTTAACATCAACAGATCACAATCCAA 233534
QY 92 -----LysAsnHisThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLys 109
DB 233533 ACTTAAAAAACGAGAGGTATTGTTTCAGTCATGATC---ATTGCTAACATGATCAATGAT 233477
QY 110 AsnArgIleAsnAsnAlaPhePheLeuAsnAspGlnThr-LeuGluPheLeu----- 126
DB 233476 AATCGATCGCACTCTGTTTTTTCATGATCTCTCTACTGAAGGGGTTAATGTCAAT 233417
QY 127 -----LysIleProSerThrLeuAlaPro----- 134
DB 233416 ATAGCTACATAAATCCCTCTGAATGATCCCTTTAATATATTTTGGGTTTTTAACAATTA 233357
QY 135 -ProMetAspProSerValProIleTrpIleIlePheGlyValIlePheCysIleI 154
DB 233356 CCGGTGAGTAACACTAGTTCCTTTTTCGCAACATGACAAAC----- 233314
QY 154 eIleValAlaIleAlaLeuLeuIleLeuSerGlyIle 166
DB 233313 -----TTGTTGATATATCAGGATTG 233293

RESULT 14

US-08-188-228-41
; Sequence 41, Application US/08188228
; Patent No. 5597725
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: CADHERIN MATERIALS AND METHODS
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Marshall, O'Toole, Gerstein, Murray &
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/188,228
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/049,460
; FILING DATE: 19 APR 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/872,643
; FILING DATE: 17 APR 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: NO. 5597725and, Greta E.
; REGISTRATION NUMBER: 35,302


```

; REFERENCE/DOCKET NUMBER: 31340
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6300
; TELEFAX: (312) 474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3136 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-188-228-41

Alignment Scores:
Pred. No.: 0.322 Length: 3136
Score: 90.00 Matches: 52
Percent Similarity: 35.39% Conservative: 34
Best Local Similarity: 21.40% Mismatches: 91
Query Match: 8.17% Indels: 66
DB: 1 Gaps: 11

US-09-989-724-387 (1-212) x US-08-188-228-41 (1-3136)
QY 13 HisAlaGluLeuCyseGlnProGlyAlaGluAsnAlaPheLysValArgLeuSerIleArg 32
Db 1835 CACACTGACTTGGAGACAGTTCACATCATGCGATGATGGGAAGATAACACTGGCG 1894
QY 33 ThrAlaLeuGlyAspLysAlaTyxAlaTrpAspThr-----44
Db 1895 ACCCACTGGACAGAGAACTAAGTGTGGCAACATCTCCATCTTCTACTGAGATC 1954
QY 45 ---AsnGluGluTyLeuPheLysAlaMetValAlaPheSerMetArgLysValProAsn 63
Db 1955 AGGAACCAACAGTCAGATGCGAGTGTCTTATTAAAGTCTGGATGTC---AAT 2011
QY 64 ArgGluAlaThrGluIleSer-----HisValLeuLeuCys-----75
Db 2012 GACAAGCGCCCTGAATTCGCGTCCGAATATGAGGCATTTTATGTGAAATGAAACCC 2071
QY 76 ---AsnValThrGlnArgValSerPheTrpPheValThrAspProSerLysAsnHis 94
Db 2072 GCCAAGTCATTCAACAGTAGAGCC---ATGGCAAGACAGATCCCAAAATGACAT 2128
QY 95 -----ThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLys 109
Db 2129 TTTTCTTGTACAGCTTCTCCAGAAATGGTCAACACCCAAATTTACCATCAAGAA 2188
QY 110 AsnArgIleAsnAsnAlaPhePheLeu-----AsnAspGlnThrLeu 123
Db 2189 AACGAAGATAATTCCCTGAGCATTTCTGGCAAAACATAATGGATTCAACGCCAAGCAA 2248
QY 124 GluPheLeuLysIleProSerThrLeuAla-----ProProMetAspProSer 139
Db 2249 GAAGTCTACTTCTGCTATCGTATCAGTGAAGTGGGACCCCTCTGTAGTAGACC 2308
QY 140 ValProIleTrpIleIlePheGly-----148
Db 2309 AGTACCTGACCATCGCGTCTGTGCTGTAGCAATGACGGGTGTTGAGTGGCAAT 2368
QY 149 -----ValIlePhe 151
Db 2369 GTCGAAGCTTATGCTCTTCTATTTGGGCTCAGTATGGGCGGCTTAATGTCTATTAGCC 2428
QY 152 CysIleIleIleValAlaIleAlaLeuLeuIleLeuSerGlyIleTrpGlnArgArgArg 171
Db 2429 TGCATCATTTTGTCTGCTCATTTGTGGTTCTGTTC-----GTTACCTCGAGCGGAT 2482
QY 172 LysAsnLysGluProSerGluValAspAlaGluAspLysCysGluAsnMetIleThr 191
Db 2483 AAAAAT---GAACCACTAATAATCAAGATGATGAGACGTTTCGAGAAACATCATTCGC 2539
QY 192 IleGluAsn 194
```

```
Db      2012 GACAAGCCCTGCGTCCGATATGAGGCATTTTATGTGAAAAATGGAACCC 2071
QY      76 ---AsnValThrGlnArgValSerPheTrpPheValValThrAspProSerLysAsnHis 94
Db      2072 GGCCAAGTCATTCAACAGTAGCGCC---ATGGACAAGAGCGATCCCAAAAATGGACAT 2128
QY      95 -----ThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLys 109
Db      2129 TTTTCTTGTACAGTCTTCTTCAGAAATGGTCAACACCCAAATTTCCATCAAGAAA 2188
QY      110 AsnArgIleAsnAsnAlaPhePheLeu-----AsnAspGlnThrLeu 123
Db      2189 AACGAGATATTCCTCGAGCATTCGGCAAAACATAATGATTCAACCGCCAGAGCAA 2248
QY      124 GluPheLeuLysIleProSerThrLeuAla-----ProMetMetAspProSer 139
Db      2249 GAAGTCTACCTTCTGCTATCGTATCAGTCAGTCAGTGGGAACCCCTCTGAGTAGCACC 2308
QY      140 ValProIleTrpIleIleIlePheGly----- 148
Db      2309 AGTACCCTGACCATCCGCGTCTGTGTGCTGTAGCAATGACGGCGTGTTCAGTGTGCAAT 2368
QY      149 -----ValIlePhe 151
Db      2369 GTCGAGCTTATGTCCTCTCTATTGGCTCAGTATGGCGGTTAATTGCTATATTAGCC 2428
QY      152 CysIleIleIleValAlaIleAlaLeuLeuIleLeuSerGlyIleTrpGlnArgArgArg 171
Db      2429 TGCATCATTTTGTGCTGCTCATTTGTGTTCTGTTCC-----GTTACCTCGAGCGGCAT 2482
QY      172 LysAsnLysGluProSerGluValAspAlaGluAspLysCysGluAsnMetIleThr 191
Db      2483 AAAAAT---GAACCACTAATAAAGATGATGAAGACGTTTCGAGAAACATCATTCGC 2539
QY      192 IleGluAsn 194
Db      2540 TAGACGAC 2548
```

Search completed: April 4, 2004, 04:07:00
Job time : 238 secs

1 APPLICANT: Tamas, Daniel
 2 APPLICANT: Watanabe, Colin K.
 3 APPLICANT: Williams, P. Mickey
 4 APPLICANT: Wood, William I.
 5 APPLICANT: Zhang, Zemin
 6 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 7 ACIDS Encoding the Same
 8 FILE REFERENCE: P2730PIC63
 9 CURRENT APPLICATION NUMBER: US/09/989,722
 10 CURRENT FILING DATE: 2001-11-19
 11 PRIOR APPLICATION NUMBER: 60/049787
 12 PRIOR FILING DATE: 1997-06-16
 13 PRIOR APPLICATION NUMBER: 60/062250
 14 PRIOR FILING DATE: 1997-10-17
 15 PRIOR APPLICATION NUMBER: 60/065186
 16 PRIOR FILING DATE: 1997-11-12
 17 PRIOR APPLICATION NUMBER: 60/065311
 18 PRIOR FILING DATE: 1997-11-13
 19 PRIOR APPLICATION NUMBER: 60/066770
 20 PRIOR FILING DATE: 1997-11-24
 21 PRIOR APPLICATION NUMBER: 60/075945
 22 PRIOR FILING DATE: 1998-02-25
 23 PRIOR APPLICATION NUMBER: 60/078910
 24 PRIOR FILING DATE: 1998-03-20
 25 PRIOR APPLICATION NUMBER: 60/083322
 26 PRIOR FILING DATE: 1998-04-28
 27 PRIOR APPLICATION NUMBER: 60/084600
 28 PRIOR FILING DATE: 1998-05-07
 29 PRIOR APPLICATION NUMBER: 60/087106
 30 PRIOR FILING DATE: 1998-05-28
 31 PRIOR APPLICATION NUMBER: 60/087607
 32 PRIOR FILING DATE: 1998-06-02
 33 PRIOR APPLICATION NUMBER: 60/087609
 34 PRIOR FILING DATE: 1998-06-02
 35 PRIOR APPLICATION NUMBER: 60/087759
 36 PRIOR FILING DATE: 1998-06-02
 37 PRIOR APPLICATION NUMBER: 60/087827
 38 PRIOR FILING DATE: 1998-06-03
 39 PRIOR APPLICATION NUMBER: 60/088021
 40 PRIOR FILING DATE: 1998-06-04
 41 PRIOR APPLICATION NUMBER: 60/088025
 42 PRIOR FILING DATE: 1998-06-04
 43 PRIOR APPLICATION NUMBER: 60/088026
 44 PRIOR FILING DATE: 1998-06-04
 45 PRIOR APPLICATION NUMBER: 60/088028
 46 PRIOR FILING DATE: 1998-06-04
 47 PRIOR APPLICATION NUMBER: 60/088029
 48 PRIOR FILING DATE: 1998-06-04
 49 PRIOR APPLICATION NUMBER: 60/088030
 50 PRIOR FILING DATE: 1998-06-04
 51 PRIOR APPLICATION NUMBER: 60/088033
 52 PRIOR FILING DATE: 1998-06-04
 53 PRIOR APPLICATION NUMBER: 60/088326
 54 PRIOR FILING DATE: 1998-06-04
 55 PRIOR APPLICATION NUMBER: 60/088167
 56 PRIOR FILING DATE: 1998-06-05
 57 PRIOR APPLICATION NUMBER: 60/088202
 58 PRIOR FILING DATE: 1998-06-05
 59 PRIOR APPLICATION NUMBER: 60/088212
 60 PRIOR FILING DATE: 1998-06-05
 61 PRIOR APPLICATION NUMBER: 60/088217
 62 PRIOR FILING DATE: 1998-06-05
 63 PRIOR APPLICATION NUMBER: 60/088655
 64 PRIOR FILING DATE: 1998-06-09
 65 PRIOR APPLICATION NUMBER: 60/088734
 66 PRIOR FILING DATE: 1998-06-10
 67 PRIOR APPLICATION NUMBER: 60/088738
 68 PRIOR FILING DATE: 1998-06-10
 69 PRIOR APPLICATION NUMBER: 60/088742
 70 PRIOR FILING DATE: 1998-06-10
 71 PRIOR APPLICATION NUMBER: 60/088810
 72 PRIOR FILING DATE: 1998-06-10
 73 PRIOR APPLICATION NUMBER: 60/088824

;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 3 65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-989-722-386 (1-1346)

Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ATGTTGTGGCTCTCTTTTCTGTGACTGCACTTCACTGCTGAACCTCTGTCAACCAAGT 66
Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTCGGAGATAAAGCATAT 126
Qy 41 AlaTrpAspThrAsnGluGluTrpLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAAGATACCTCTCAAGCGATGTAGCTTTTCCATGAGAAA 186
Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCCTACTTTGCAATGTAAACCCAGAGG 246
Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 247 GTATCATTTCTGTTGTGTATACAGACCTTCAAAAAATCAACCTTCTCTGCTGTGAG 306
Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db 307 GTGCATCAGCCATGAAGATGACAGAACCGGATCAACATGCCTTTCTTCTAATGAC 366
Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal 140
Db 367 CAACCTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCAACCCATGCATCTGTG 426
Qy 141 ProlleThrIleIlePheCheYValIlePheCysIleIleIleValAlaIleAlaLeu 160

Db 427 CCCATCTGGATTATTATATTGGTGTGATATTATTTGCATCATCATAGTTGCAATGGCACTA 486
Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgGlyAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAACCAACCATCTGAAGTGAT 546
Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GACGCTGAAGATAAGTGTGAAACATGATCACAATTTGAAAATGGCATCCCTCTGTATCCC 606
Qy 201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
Db 607 CTGGACATGAAGGGGGGCATATTAAATGATGCGCTTCA 642

RESULT 2

US-09-989-723-386
; Sequence 386, Application US/09989723
; Patent No. US20020072092A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC62
; CURRENT APPLICATION NUMBER: US/09/989,723
; PRIOR FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759

Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-989-723-386 (1-1346)

Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaLeuHisAlaGluLeuCysGluProGly 20
Db 7 ATGTTGTGGTCTCTTTTCTGTGACTGCCATTCATGCTGAACCTGTCTCAACAGGT 66
Qy 21 AlaGluAsnAlaPheLeuValArgLeuSerLeuThrAlaLeuGluValAspLeuAlaTyr 40
Db 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGACAGCTCTGGGAGATTAAGCATAT 126
Qy 41 AlaTrpAspThrAsnGluGluTyrLeuPheLeuAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 186
Qy 61 ValProAsnArgGluAlaThrGluLeuSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCCAACAGAGAACCAACAAATTTCCCATGTCTTACTTTGCAATGTAAACCCAGAG 246
Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 247 GTATCATTTCTGGTTGTGGTTACAGACCCCTTCAAAAATACACCCCTTCTCTGTGAG 306
Qy 101 ValGlnSerAlaLeuArgMetAsnLysAsnArgLysLeuAsnAlaPhePheLeuAsnAsp 120
Db 307 GTGCAATCAGCATAGATGATCAACAGAACCGATCAACATGCTCTTCTTAATGAC 366
Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
Db 367 CAACACTCGGAATTTTAAAAATCCCTCCACACTTGCACCAACCCATGAGCCATCTGTG 426
Qy 141 ProLeuTrpIleIlePheGluValIlePheCysIleIleIleValAlaLeu 160
Db 427 CCCATCTGGATATTATTTGGTGTGATATTTTGCATCATCATAGTTGCAATGGCACTA 486
Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTTATCAGGGATCTGCACTAGAGAAAGAACAAAGAACCAATCTGAGTGGAT 546
Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GACGCTCAAGATAAGTGTGAAAAACATGATCAATTGAATGATGATCCCTCTGATCCC 606
Qy 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
Db 607 CTGGACATGAAGGGGGGCATATTAAATGATGCTTTCA 642

RESULT 3

US-09-989-279-386

; Sequence 386, Application US/09989279

; Patent No. US2002007496A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C56
; CURRENT APPLICATION NUMBER: US/09/989,279
; PRIOR FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10

; PRIOR APPLICATION NUMBER: 60/088810
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088824
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088826
 ; PRIOR FILING DATE: 1998-06-10
 ; PRIOR APPLICATION NUMBER: 60/088858
 ; PRIOR FILING DATE: 1998-06-11
 ; PRIOR APPLICATION NUMBER: 60/088861
 ; PRIOR FILING DATE: 1998-06-11
 ; PRIOR APPLICATION NUMBER: 60/088876
 ; PRIOR FILING DATE: 1998-06-11
 ; PRIOR APPLICATION NUMBER: 60/089105
 ; PRIOR FILING DATE: 1998-06-12
 ; PRIOR APPLICATION NUMBER: 60/089440
 ; PRIOR FILING DATE: 1998-06-16
 ; PRIOR APPLICATION NUMBER: 60/089512
 ; PRIOR FILING DATE: 1998-06-16
 ; PRIOR APPLICATION NUMBER: 60/089514
 ; PRIOR FILING DATE: 1998-06-16
 ; PRIOR APPLICATION NUMBER: 60/089532
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089538
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089598
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089599
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089600
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089653
 ; PRIOR FILING DATE: 1998-06-17
 ; PRIOR APPLICATION NUMBER: 60/089801
 ; PRIOR FILING DATE: 1998-06-18
 ; PRIOR APPLICATION NUMBER: 60/089907
 ; PRIOR FILING DATE: 1998-06-18
 ; PRIOR APPLICATION NUMBER: 60/089908
 ; PRIOR FILING DATE: 1998-06-18
 ; PRIOR APPLICATION NUMBER: 60/089947
 ; PRIOR FILING DATE: 1998-06-19
 ; PRIOR APPLICATION NUMBER: 60/089948
 ; PRIOR FILING DATE: 1998-06-19
 ; PRIOR APPLICATION NUMBER: 60/089952
 ; PRIOR FILING DATE: 1998-06-19
 ; PRIOR APPLICATION NUMBER: 60/090246
 ; PRIOR FILING DATE: 1998-06-22
 ; PRIOR APPLICATION NUMBER: 60/090252
 ; PRIOR FILING DATE: 1998-06-22
 ; PRIOR APPLICATION NUMBER: 60/090254
 ; PRIOR FILING DATE: 1998-06-22
 ; PRIOR APPLICATION NUMBER: 60/090349
 ; PRIOR FILING DATE: 1998-06-23
 ; PRIOR APPLICATION NUMBER: 60/090355
 ; PRIOR FILING DATE: 1998-06-23
 ; PRIOR APPLICATION NUMBER: 60/090429
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090431
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090435
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090444
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090445
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090472
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090535
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090540
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090542
 ; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090557

; PRIOR FILING DATE: 1998-06-24
 ; PRIOR APPLICATION NUMBER: 60/090676
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090678
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090690
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090694
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090695
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090696
 ; PRIOR FILING DATE: 1998-06-25
 ; PRIOR APPLICATION NUMBER: 60/090862
 ; PRIOR FILING DATE: 1998-06-26
 ; PRIOR APPLICATION NUMBER: 60/090863
 ; PRIOR FILING DATE: 1998-06-26
 ; PRIOR APPLICATION NUMBER: 60/091360
 ; PRIOR FILING DATE: 1998-07-01
 ; PRIOR APPLICATION NUMBER: 60/091478
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091544
 ; PRIOR FILING DATE: 1998-07-01
 ; PRIOR APPLICATION NUMBER: 60/091519
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091626
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091633
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091978
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/091982
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/092182
 ; PRIOR FILING DATE: 1998-07-09

Alignment Scores:
 Pred. No.: 3,65e-147 Length: 1346
 Score: 1102.00 Matches: 212
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-989-279-386 (1-1346)

Qy	1	MetLeuTrrLeuPheLeuValThrAlaIleHleAlaGluLeuCysGlnProGly	20
Db	7	ATGTTGGCTGCTCTTTTCTGGTGACTGCTTCAAGCAGCTCTGGAGATRAAGCATAT	66
Qy	21	AlaGluAanAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr	40
Db	67	GCAGAAATGCTTTTAAAGTCAGACTTAGTATCAGAACAGCTCTGGAGATRAAGCATAT	126
Qy	41	AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys	60
Db	127	GCCTGGGATACCAATGAAGAATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA	186
Qy	61	ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg	80
Db	187	GTTCCTCAACAGAGAACAGAAATTTCCCATGCTTCTTTCATGATTAACCCAGAGG	246
Qy	81	ValSerPheTrrPheValThrAspProSerLysAsnHisThrLeuProAlaValGlu	100
Db	247	GTATCATTTCTGTTTGTGTTTACAGACCTTCAAAAATACACACCTTCTCTGCTGTAG	306
Qy	101	ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnApp	120
Db	307	GTGCAATCAGCCATAAGAAATGAACAGAACCGGATCAACAAATGCTTCTTCTTAATGAC	366
Qy	121	GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal	140
Db	367	CAAACTCTGGAAATTTTAAANAATCCCTTCCACACTTGCACCCACCAATGAGCCATCTGTG	426

Qy 141 ProlleTrrllellellePheGlyVallePheCysllellelleValleValleAlaLeu 160
Db 427 CCCATCTGGATTATATATTTGGTGTGATATTTTGCATCATCATATGTTGCAATGCACTA 486
Qy 161 LeulleuSerGlyleTrrGlnargArgGlySerGluProSerGluValasp 180
Db 487 CTGATTTTATCAGGANTCTGGACGTTAGAGAAAGAACAAAGAACCACTCTGAAGTGGAT 546
Qy 181 AspaLaGluAplyCysGluAanMetlleThrleGluAanGlyVileProSerAspPro 200
Db 547 GACGCTGAAGATAGTGTGAACAATGATCATCAATTGAATGGATCCCTCTGATVCC 606
Qy 201 LeuAspMetLysGlyGlylleLeuMetMetProSer 212
Db 607 CTGGACATGAAGGGGGGCATATTATATGATGCCTTCA 642

RESULT 4
US-09-989-727-386
; Sequence 386, Application US/09989727
; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC65
; CURRENT APPLICATION NUMBER: US/09/989,727
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907

;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 3.65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0
US-09-989-724-387 (1-212) x US-09-989-727-386 (1-1346)
QY 1 MetLeuTTPLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 7 ATGTTGGTCTCTCTTTTCTGGTACTGCAATTCATGCTGAATCTGTCAACAGGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAAGCATAT 126
QY 41 AlaTTPAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 127 GCCTGGGATACCAATGAAGATACCTCTTCAAAGCGATGGTAGCTTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 187 GTTCCACAGAGAGACACAGAAATTTCCCATGCTCTACTTTTGCATGTAAACCCAGAG 246
QY 81 ValSerPheTTPPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 247 GTATCATTTCTGGTTTGTGTTACAGACCTTCAAAAAATCACACCTTCTCTGCTGTGAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 307 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACAATGCCCTTCTTCTAAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 367 CAACCTCTGGAAATTTTAAAAATCCCTTCCACACTTGCACCCACCCATGACCATCTGTG 426
QY 141 ProfileTTPleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 427 CCCATCTGGATTATTATTTTGTGTGATATTTTGCATCATCATAGTTGCAATTGCACATA 486
QY 161 LeulleLeuSerGlyIleTTPGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
DB 487 CTGATTTTATCAGGGATCTGGCAACGTAGAGAGAAAGACAAAGAACCATCTGAAGTGGAT 546
QY 181 AsnAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 547 GACGCTGAAGATAAGTGTGNAACATGATCACATTTGAANAATGGCATCCCTCTGATCCC 606
QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
DB 607 CTGGACATGAAGGGGGCATATTATGATGCTTCA 642

RESULT 5

US-09-989-731-386
; Sequence 386, Application US/09989731
; Patent No. US20020103125A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Scrutched and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C70
CURRENT APPLICATION NUMBER: US/09/989,731
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24

;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 3,65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-989-731-386 (1-1346)

QY 1 MetLeuTrpLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 7 ATGTGTGGCTGCTCTTTTCTGGTACTGCCATTCATGCTGAACCTCTGTCAACCAAGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 67 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGAGATAAGCATAT 126
QY 41 AlaTrpAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 127 GCTGGGATACCAATGAAGATACCTCTTCAAGCGATGTAGCTTTTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 187 GTTCCCAACAGAGAAGCAACAGAAAATTTCCCATGTCTACTTTGCAATGTAAACCCAGAG 246
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 247 GTATCATTTCTGGTTTGGTTTACAGACCCCTTCAAAAATCACACCCCTTCTGCTGTAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 307 GTGCATATGACCATAGATGACAGAACCCGGATCAACAATGCCCTTCTTTCTAATGAC 366

QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAppProSerVal 140
DB 367 CAAACTCTGGAATTTTAAAAATCCCTTCACACTTGCACCACTGGACCACTCTGTG 426
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 427 CCACTCTGGATTATATATTTTGTGTGATATTTTGCATCATCATAGTTGCAATGCACTA 486
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
DB 487 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGAACCAACCATCTGAAGTGAT 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 547 GACGCTGAAGATAAGTGTGAAACCATGATCACAATTTGAAAATGGCATCCCTCTGTATCCC 606
QY 201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
DB 607 CTGGCATGAGGGGGGCATATTTATGATGCTTCA 642

RESULT 6

US-09-989-732-386

; Sequence 386, Application US/09989732

; Patent No. US20020123463A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2730PIC57

; CURRENT APPLICATION NUMBER: US/09/989,732

; CURRENT FILING DATE: 2001-11-19

; PRIOR APPLICATION NUMBER: 60/049787

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17

; PRIOR APPLICATION NUMBER: 60/065186

; PRIOR FILING DATE: 1997-11-12

; PRIOR APPLICATION NUMBER: 60/065311

; PRIOR FILING DATE: 1997-11-13

; PRIOR APPLICATION NUMBER: 60/066770

; PRIOR FILING DATE: 1997-11-24

; PRIOR APPLICATION NUMBER: 60/075945

; PRIOR FILING DATE: 1998-02-25

; PRIOR APPLICATION NUMBER: 60/078910

; PRIOR FILING DATE: 1998-03-20

; PRIOR APPLICATION NUMBER: 60/083322

; PRIOR FILING DATE: 1998-04-28

; PRIOR APPLICATION NUMBER: 60/084600

; PRIOR FILING DATE: 1998-05-07

; PRIOR APPLICATION NUMBER: 60/087106

1	PRIOR FILING DATE: 1998-05-28	
2	PRIOR APPLICATION NUMBER: 60/087607	
3	PRIOR FILING DATE: 1998-06-02	
4	PRIOR APPLICATION NUMBER: 60/087609	
5	PRIOR FILING DATE: 1998-06-02	
6	PRIOR APPLICATION NUMBER: 60/087759	
7	PRIOR FILING DATE: 1998-06-02	
8	PRIOR APPLICATION NUMBER: 60/087827	
9	PRIOR FILING DATE: 1998-06-03	
10	PRIOR APPLICATION NUMBER: 60/088021	
11	PRIOR FILING DATE: 1998-06-04	
12	PRIOR APPLICATION NUMBER: 60/088025	
13	PRIOR FILING DATE: 1998-06-04	
14	PRIOR APPLICATION NUMBER: 60/088026	
15	PRIOR FILING DATE: 1998-06-04	
16	PRIOR APPLICATION NUMBER: 60/088028	
17	PRIOR FILING DATE: 1998-06-04	
18	PRIOR APPLICATION NUMBER: 60/088029	
19	PRIOR FILING DATE: 1998-06-04	
20	PRIOR APPLICATION NUMBER: 60/088030	
21	PRIOR FILING DATE: 1998-06-04	
22	PRIOR APPLICATION NUMBER: 60/088033	
23	PRIOR FILING DATE: 1998-06-04	
24	PRIOR APPLICATION NUMBER: 60/088326	
25	PRIOR FILING DATE: 1998-06-04	
26	PRIOR APPLICATION NUMBER: 60/088167	
27	PRIOR FILING DATE: 1998-06-05	
28	PRIOR APPLICATION NUMBER: 60/088202	
29	PRIOR FILING DATE: 1998-06-05	
30	PRIOR APPLICATION NUMBER: 60/088212	
31	PRIOR FILING DATE: 1998-06-05	
32	PRIOR APPLICATION NUMBER: 60/088217	
33	PRIOR FILING DATE: 1998-06-05	
34	PRIOR APPLICATION NUMBER: 60/088655	
35	PRIOR FILING DATE: 1998-06-09	
36	PRIOR APPLICATION NUMBER: 60/088734	
37	PRIOR FILING DATE: 1998-06-10	
38	PRIOR APPLICATION NUMBER: 60/088738	
39	PRIOR FILING DATE: 1998-06-10	
40	PRIOR APPLICATION NUMBER: 60/088742	
41	PRIOR FILING DATE: 1998-06-10	
42	PRIOR APPLICATION NUMBER: 60/088810	
43	PRIOR FILING DATE: 1998-06-10	
44	PRIOR APPLICATION NUMBER: 60/088824	
45	PRIOR FILING DATE: 1998-06-10	
46	PRIOR APPLICATION NUMBER: 60/088826	
47	PRIOR FILING DATE: 1998-06-10	
48	PRIOR APPLICATION NUMBER: 60/088958	
49	PRIOR FILING DATE: 1998-06-11	
50	PRIOR APPLICATION NUMBER: 60/088961	
51	PRIOR FILING DATE: 1998-06-11	
52	PRIOR APPLICATION NUMBER: 60/088976	
53	PRIOR FILING DATE: 1998-06-11	
54	PRIOR APPLICATION NUMBER: 60/089105	
55	PRIOR FILING DATE: 1998-06-12	
56	PRIOR APPLICATION NUMBER: 60/089440	
57	PRIOR FILING DATE: 1998-06-16	
58	PRIOR APPLICATION NUMBER: 60/089512	
59	PRIOR FILING DATE: 1998-06-16	
60	PRIOR APPLICATION NUMBER: 60/089514	
61	PRIOR FILING DATE: 1998-06-16	
62	PRIOR APPLICATION NUMBER: 60/089532	
63	PRIOR FILING DATE: 1998-06-17	
64	PRIOR APPLICATION NUMBER: 60/089538	
65	PRIOR FILING DATE: 1998-06-17	
66	PRIOR APPLICATION NUMBER: 60/089598	
67	PRIOR FILING DATE: 1998-06-17	
68	PRIOR APPLICATION NUMBER: 60/089599	
69	PRIOR FILING DATE: 1998-06-17	
70	PRIOR APPLICATION NUMBER: 60/089600	
71	PRIOR FILING DATE: 1998-06-17	
72	PRIOR APPLICATION NUMBER: 60/089653	
73	PRIOR FILING DATE: 1998-06-17	

1	PRIOR APPLICATION NUMBER: 60/089801
2	PRIOR FILING DATE: 1998-06-18
3	PRIOR APPLICATION NUMBER: 60/089907
4	PRIOR FILING DATE: 1998-06-18
5	PRIOR APPLICATION NUMBER: 60/089908
6	PRIOR FILING DATE: 1998-06-18
7	PRIOR APPLICATION NUMBER: 60/089947
8	PRIOR FILING DATE: 1998-06-19
9	PRIOR APPLICATION NUMBER: 60/089948
10	PRIOR FILING DATE: 1998-06-19
11	PRIOR APPLICATION NUMBER: 60/089952
12	PRIOR FILING DATE: 1998-06-19
13	PRIOR APPLICATION NUMBER: 60/090246
14	PRIOR FILING DATE: 1998-06-22
15	PRIOR APPLICATION NUMBER: 60/090252
16	PRIOR FILING DATE: 1998-06-22
17	PRIOR APPLICATION NUMBER: 60/090254
18	PRIOR FILING DATE: 1998-06-22
19	PRIOR APPLICATION NUMBER: 60/090349
20	PRIOR FILING DATE: 1998-06-23
21	PRIOR APPLICATION NUMBER: 60/090355
22	PRIOR FILING DATE: 1998-06-23
23	PRIOR APPLICATION NUMBER: 60/090429
24	PRIOR FILING DATE: 1998-06-24
25	PRIOR APPLICATION NUMBER: 60/090431
26	PRIOR FILING DATE: 1998-06-24
27	PRIOR APPLICATION NUMBER: 60/090435
28	PRIOR FILING DATE: 1998-06-24
29	PRIOR APPLICATION NUMBER: 60/090444
30	PRIOR FILING DATE: 1998-06-24
31	PRIOR APPLICATION NUMBER: 60/090445
32	PRIOR FILING DATE: 1998-06-24
33	PRIOR APPLICATION NUMBER: 60/090542
34	PRIOR FILING DATE: 1998-06-24
35	PRIOR APPLICATION NUMBER: 60/090557
36	PRIOR FILING DATE: 1998-06-24
37	PRIOR APPLICATION NUMBER: 60/090676
38	PRIOR FILING DATE: 1998-06-25
39	PRIOR APPLICATION NUMBER: 60/090678
40	PRIOR FILING DATE: 1998-06-25
41	PRIOR APPLICATION NUMBER: 60/090690
42	PRIOR FILING DATE: 1998-06-25
43	PRIOR APPLICATION NUMBER: 60/090694
44	PRIOR FILING DATE: 1998-06-25
45	PRIOR APPLICATION NUMBER: 60/090695
46	PRIOR FILING DATE: 1998-06-25
47	PRIOR APPLICATION NUMBER: 60/090696
48	PRIOR FILING DATE: 1998-06-25
49	PRIOR APPLICATION NUMBER: 60/090862
50	PRIOR FILING DATE: 1998-06-26
51	PRIOR APPLICATION NUMBER: 60/090863
52	PRIOR FILING DATE: 1998-06-26
53	PRIOR APPLICATION NUMBER: 60/091360
54	PRIOR FILING DATE: 1998-07-01
55	PRIOR APPLICATION NUMBER: 60/091478
56	PRIOR FILING DATE: 1998-07-02
57	PRIOR APPLICATION NUMBER: 60/091544
58	PRIOR FILING DATE: 1998-07-01
59	PRIOR APPLICATION NUMBER: 60/091519
60	PRIOR FILING DATE: 1998-07-02
61	PRIOR APPLICATION NUMBER: 60/091626
62	PRIOR FILING DATE: 1998-07-02
63	PRIOR APPLICATION NUMBER: 60/091633
64	PRIOR FILING DATE: 1998-07-02
65	PRIOR APPLICATION NUMBER: 60/091978
66	PRIOR FILING DATE: 1998-07-07
67	PRIOR APPLICATION NUMBER: 60/091982

; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 3 65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-989-732-386 (1-1346)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 7 ATGTGTGGCTGCTCTTTTCTGGTGAAGTGGTCAATTCATGCTGAAGTCAAGTCAAGT 66
QY 21 AlaGluAsnAlaPheLeuValArgLeuSerIleArgThrAlaLeuGlyAspIleValTyr 40
DB 67 GCAGAAATGCTTTTAAAGTGAAGTATAGTATCAGAACAGCTCTGGGAGATAAGCATAT 126
QY 41 AlaTrpAspThrAsnGluGluTrpLeuPheLeuValAlaPheSerMetArgLys 60
DB 127 GCTGGATACCATGAGATACCTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 187 GTTCCCAACAGAGAACAGAAATTTCCATGTCTACTTTGCAATGTAAACCCAGAGG 246
QY 81 ValSerPheTrpPheValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 247 GTATCATCTGGTTTGTGTGTACAGACCCCTTCAAAAATCAACCCCTTCTCTGTGTAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 307 GTGCATCAGCCATAGATGACAGAACCGATCAACATGCCCTTCTTCTTAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 367 CAAACTCTGAATTTTAAAAATCCCTTCCACACTTGACACCCATGACCCATCTGTG 426
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
DB 427 CCATCTGATATTATATTGGTGTGATATTGTGCATCATCATGTGCAATTGCAATG 486
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
DB 487 CTGATTTTATCAGGATCTGGCACTGAGAGAAAGACAGAACCATCTGAGTGGAT 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 547 GAGCTGAAAGATAAGTGTGAACATGATCACAATTTGAAATGGCATCCCTCTGATCCC 606
QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
DB 607 CTGGACATGAAGGGGGGCATATTAATGATGCCTTCA 642

RESULT 7

US-09-991-073-386
; Sequence 386, Application US/09991073
; Patent No. US2002012756A1
; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2730P1C15

; CURRENT APPLICATION NUMBER: US/09/991,073

; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09

Db 307 GTGCATCGCCATAGATGACACAGACCGGATCACATGCCCTCTTCTTAATGAC 366
Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
Db 367 CAAACTCTGGAATTTTAAATCCCTTCACACTTGCACACCCATGGACCCCATCTGTG 426
Qy 141 ProIleTTrIleIlePheGlyValIlePheCysIleIleValalaleu 160
Db 427 CCATCTGATATTATATTGGTGGATATTTTGCATCATCATATGCAATGGACATA 486
Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTTATCAGGATCTGGCACTAGAGAAAGAACACCACTGAGTGGAT 546
Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GACGCTGAAGATAAGTGTGAAACATGATCACAAATGAAATGGCATCCCTCTGATCC 606
Qy 201 LeuAspMetIysGlyGlyIleLeuMetMetProSer 212
Db 607 CTGGACATGAAGGGGGGCATATTAAATGATGCCCTTCA 642

RESULT 8

US-09-990-442-386

; Sequence 386, Application US/09990442

; Patent No. US20020132252A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2730PIC8

; CURRENT APPLICATION NUMBER: US/09/990,442

; CURRENT FILING DATE: 2001-11-14

; PRIOR APPLICATION NUMBER: 60/049787

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17

; PRIOR APPLICATION NUMBER: 60/065186

; PRIOR FILING DATE: 1997-11-12

; PRIOR APPLICATION NUMBER: 60/065311

; PRIOR FILING DATE: 1997-11-13

; PRIOR APPLICATION NUMBER: 60/066770

; PRIOR FILING DATE: 1997-11-24

; PRIOR APPLICATION NUMBER: 60/075945

; PRIOR FILING DATE: 1998-02-25

; PRIOR APPLICATION NUMBER: 60/078910

; PRIOR FILING DATE: 1998-03-20

; PRIOR APPLICATION NUMBER: 60/083322

; PRIOR FILING DATE: 1998-04-28

; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600

;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02

;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 3.65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-990-442-386 (1-1346)

QY 1 MetLeuTrrLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ATGTTGTGGCTGCTCTTTTCTGTGGACTGCCATTCATGCTGAATCTGTCTCAACGAGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleAlaGThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAATGCTTTTAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT 126
QY 41 AlaTrrAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAGATACCTTCTCAAGGCGATGGTAGCTTCTCCATGAGAAAA 186
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCCAACAGAGAACAGCAACAGAAATTTCCCATGTCTTCTTGGCAATGTAAACCCAGAG 246
QY 81 ValSerPheTrrPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 247 GTATCATTTCTGTTTGTGTTACAGACCTTCAAAAATCACACCTTCTCTGCTGTGAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db 307 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACATGCTTCTTCTAAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAppProSerVal 140
Db 367 CAACACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCCCAACCCCACTCTGTG 426
QY 141 ProfileTrrIleIlePheGlyValIlePheCysAlleIleIleValAlaIleAlaLeu 160
Db 427 CCATCTGATATTATTATTGTTGTTGATATTGTCATCATCATAGTTGCATTTGCACCTA 486
QY 161 LeuIleLeuSerGlyIleTrrPglNArgArgArgLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTTATCAGGGATCTGGCAACGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAppPro 200
Db 547 GACGCTGAGATTAAGTGTGAAGAACATGATCACAATTTGAATAATGGCATCCCTCTGATCC 606
QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
Db 607 CTGGACATGAGGGGGGCGCATATTATGATGCTTCA 642

RESULT 9
US-09-991-163-386
; Sequence 386, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC17
CURRENT APPLICATION NUMBER: US/09/991,163
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24

[illegible]

```

: PRIOR FILING DATE: 1998-07-02
: PRIOR APPLICATION NUMBER: 60/091633
: PRIOR FILING DATE: 1998-07-02
: PRIOR APPLICATION NUMBER: 60/091978
: PRIOR FILING DATE: 1998-07-02
: PRIOR APPLICATION NUMBER: 60/091982
: PRIOR FILING DATE: 1998-07-02
: PRIOR APPLICATION NUMBER: 60/092182
: PRIOR FILING DATE: 1998-07-02
:

```

Alignment Scores:	
Pred. No.:	3.65e-147
Score:	1101.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	100.00%
DB:	9
Length:	1346
Matches:	212
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-09-989-724-387 (1-212) x US-09-993-604-386 (1-1346)

1	MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuLeuCysGlnProGly	20
7	ATGTTGTGGCTGCTCTTTTTCGTGGTCACTGCCATTCATGCTGAATCTCTGTCAACACGAGT	66
21	AlaGluAsnAlaPheLeuValArgLeuSerIleArgThrAlaLeuGlyAspIysAlaTyr	40
67	GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT	126
41	AlaTrpAspThrAsnGluGluTyrLeuPheIysAlaMetValAlaPheSerMetArgLys	60
127	GCCTGGGATACCAATGAAGATACTCTTCAACCGATGCTAGCTTCTCCATGAGAAA	186
61	ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg	80
187	GTTCCCAACAGAGAACCAACAGAATTTCCCATGCTCTACTTTGCAATGTATAACCCAGAGS	246
81	ValSerPheTrpPheValValThrAspProSerIysAsnHisThrLeuProAlaValGlu	100
247	GTATCATCTCGTTGTGTGTACAGACCTTCAAAANTCACACCTTCTCTGCTGTGTAG	306
101	ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp	120
307	GTGCAATCAGCCATGAAGATGAACAAGAACCGGATCAACAATGCCCTCTTTCTTAATGAC	366
121	GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal	140
367	CANACTCGAAATTTTAAAAATCCCTTCCACACTTGACACCCCATGGACCCCATCTG	426
141	ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu	160
427	CCCATCTGGAATTATTATATTTGGTGTGATATTTTGCATCATATAGTTGCAATTCACATA	486
161	LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp	180
487	CTGATTTTATTCAGGGATCTGGCAACGTAGAGAAGAAGAACCAAGACCATCTCGAAGTGGAT	546
181	AspAlaGluAspLysCysGluAsnMetIlePheIleGluAsnGlyIleProSerAspPro	200
547	GACGCTGAAGATAGTGTGAAAAACATGATCACAATTGCAAAATGGCATCCCTCTGATGCC	606
201	LeuAspMetLysGlyGlyIleLeuMetMetProSer	212
607	CTGGACATGACAGGGGGCATTAATGATGCTTCA	642

RESULT 11

RESULTS II
US-09-990-456-386

US-09-030-438-388
; Sequence 386, Application US/09990456; sequence 386, APPLICATION
; Patent No. US20020137890A1

;; PATCH# NO. US2002013
;; GENERAL INFORMATION:

APPLICANT: Ashkenazi Avi J.

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker Kevin p

APPLICANT: Baker, Kevin P.
APPLICANT: Borstein David

; APPLICANT: Botstein, David
: APPLICANT: Desnoyers Luc

APPLICANT:	Eaton, Dan L.
APPLICANT:	Ferrara, Napoleone
APPLICANT:	Fong, Sherman
APPLICANT:	Gerber, Hanspeter
APPLICANT:	Gerritsen, Mary E.
APPLICANT:	Goddard, Audrey
APPLICANT:	Godowski, Paul J.
APPLICANT:	Grimaldi, J. Christopher
APPLICANT:	Gurney, Austin L.
APPLICANT:	Kljasin, Ivar J.
APPLICANT:	Napier, Mary A.
APPLICANT:	Pan, James
APPLICANT:	Paoni, Nicholas F.
APPLICANT:	Roy, Margaret Ann
APPLICANT:	Stewart, Timothy A.
APPLICANT:	Tumas, Daniel
APPLICANT:	Watanabe, Colin K.
APPLICANT:	Williams, P. Mickey
APPLICANT:	Wood, William I.
APPLICANT:	Zhang, Zemin
TITLE OF INVENTION:	Acids and Transmembrane Polypeptides and Nucleic
FILE REFERENCE:	P2730PIC22
CURRENT APPLICATION NUMBER:	US/09/990,456
CURRENT FILING DATE:	2001-11-14
PRIOR APPLICATION NUMBER:	60/049787
PRIOR FILING DATE:	1997-06-16
PRIOR APPLICATION NUMBER:	60/062250
PRIOR FILING DATE:	1997-10-17
PRIOR APPLICATION NUMBER:	60/065186
PRIOR FILING DATE:	1997-11-12
PRIOR APPLICATION NUMBER:	60/065311
PRIOR FILING DATE:	1997-11-13
PRIOR APPLICATION NUMBER:	60/066770
PRIOR FILING DATE:	1997-11-24
PRIOR APPLICATION NUMBER:	60/075945
PRIOR FILING DATE:	1998-02-25
PRIOR APPLICATION NUMBER:	60/078910
PRIOR FILING DATE:	1998-03-20
PRIOR APPLICATION NUMBER:	60/083322
PRIOR FILING DATE:	1998-04-28
PRIOR APPLICATION NUMBER:	60/084600
PRIOR FILING DATE:	1998-05-07
PRIOR APPLICATION NUMBER:	60/087106
PRIOR FILING DATE:	1998-05-28
PRIOR APPLICATION NUMBER:	60/087607
PRIOR FILING DATE:	1998-06-02
PRIOR APPLICATION NUMBER:	60/087609
PRIOR FILING DATE:	1998-06-02
PRIOR APPLICATION NUMBER:	60/087759
PRIOR FILING DATE:	1998-06-02
PRIOR APPLICATION NUMBER:	60/087827
PRIOR FILING DATE:	1998-06-03
PRIOR APPLICATION NUMBER:	60/088021
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088025
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088026
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088028
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088029
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088030
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088033
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088326
PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088167
PRIOR FILING DATE:	1998-06-05
PRIOR APPLICATION NUMBER:	60/088202
PRIOR FILING DATE:	1998-06-05

```
/ PRIOR APPLICATION NUMBER: 60/088212
/ PRIOR FILING DATE: 1998-06-05
/ PRIOR APPLICATION NUMBER: 60/088217
/ PRIOR FILING DATE: 1998-06-05
/ PRIOR APPLICATION NUMBER: 60/088655
/ PRIOR FILING DATE: 1998-06-09
/ PRIOR APPLICATION NUMBER: 60/088734
/ PRIOR FILING DATE: 1998-06-10
/ PRIOR APPLICATION NUMBER: 60/088738
/ PRIOR FILING DATE: 1998-06-10
/ PRIOR APPLICATION NUMBER: 60/088742
/ PRIOR FILING DATE: 1998-06-10
/ PRIOR APPLICATION NUMBER: 60/088810
/ PRIOR FILING DATE: 1998-06-10
/ PRIOR APPLICATION NUMBER: 60/088824
/ PRIOR FILING DATE: 1998-06-10
/ PRIOR APPLICATION NUMBER: 60/088826
/ PRIOR FILING DATE: 1998-06-10
/ PRIOR APPLICATION NUMBER: 60/088858
/ PRIOR FILING DATE: 1998-06-11
/ PRIOR APPLICATION NUMBER: 60/088861
/ PRIOR FILING DATE: 1998-06-11
/ PRIOR APPLICATION NUMBER: 60/088876
/ PRIOR FILING DATE: 1998-06-11
/ PRIOR APPLICATION NUMBER: 60/089105
/ PRIOR FILING DATE: 1998-06-12
/ PRIOR APPLICATION NUMBER: 60/089440
/ PRIOR FILING DATE: 1998-06-16
/ PRIOR APPLICATION NUMBER: 60/089512
/ PRIOR FILING DATE: 1998-06-16
/ PRIOR APPLICATION NUMBER: 60/089514
/ PRIOR FILING DATE: 1998-06-16
/ PRIOR APPLICATION NUMBER: 60/089532
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089538
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089598
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089599
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089600
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089653
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089801
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089907
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089908
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089947
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/089948
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/089952
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/090246
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090252
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090254
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090349
/ PRIOR FILING DATE: 1998-06-23
/ PRIOR APPLICATION NUMBER: 60/090355
/ PRIOR FILING DATE: 1998-06-23
/ PRIOR APPLICATION NUMBER: 60/090429
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090431
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090435
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090444

/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090445
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090472
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090535
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090540
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090542
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090557
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090676
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090678
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090690
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090694
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090695
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090696
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090862
/ PRIOR FILING DATE: 1998-06-26
/ PRIOR APPLICATION NUMBER: 60/090863
/ PRIOR FILING DATE: 1998-06-26
/ PRIOR APPLICATION NUMBER: 60/091360
/ PRIOR FILING DATE: 1998-07-01
/ PRIOR APPLICATION NUMBER: 60/091478
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091544
/ PRIOR FILING DATE: 1998-07-01
/ PRIOR APPLICATION NUMBER: 60/091519
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091626
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091633
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091978
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 3.65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-990-456-386 (1-1346)

Qy 1 MetLeuTriLeuLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ANGTGTGCTGCTCTTTTCTGGTACTGCGACTGCTGACTCTCTGCAACAGGT 66
Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAAACAGCTCTGGGAGATAAAGCATAT 126
Qy 41 AlaTrpAspThrAsnGluIuTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAAGAATACCTCTTCAAAGCGATGCTAGCTTTCTCCATGAGAAA 186
Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCACAGAGACGACCAAGAAATTTCCATGTCTTACTTTTGCATGTAAACCCAGG 246
```


;
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
;
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
;
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
;
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
;
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
;
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
;
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
;
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
;
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
;
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
;
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
;
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
;
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
;
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
;
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
;
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
;
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
;
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
;
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
;
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
;
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
;
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
;
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
;
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
;
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
;
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
;
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
;
; PRIOR FILING DATE: 1998-07-01

;
; PRIOR APPLICATION NUMBER: 60/091519
;
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
;
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
;
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
;
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
;
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
;
; PRIOR FILING DATE: 1998-07-09
;
;
Alignment Scores:
Pred. No.: 3.65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0
US-09-989-724-387 (1-212) x US-09-989-721-386 (1-1346)
Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ATGTTGGTCTCTCTTTTCTGGTGACTGCGCATTCATCTGAACTCTCTCAACCAAGT 66
Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATAT 126
Qy 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAAGAATACCTCTTCAAGCGATGTTAGCTTCTCCATGAGAAA 186
Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGluArg 80
Db 187 GTTCCCAACAGAGAACAGAAATTTCCCATGCTCTTCTTTCATGTAATGAAACCCAGAG 246
Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 247 GTATCATCTCTGGTTTGTGTTACAGACCTTCAAAAATCACACCTTCTCTGCTGTTGAG 306
Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db 307 GTGCAATCAGCCATGAAGATGAACAGAACCGGATCAACAATGCCCTTCTTCTTAAATGAC 366
Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal 140
Db 367 CAACCTCTGGAATTTTAAAAATCCCTTCCACATTCGACCCACCATGGACCATCTGTG 426
Qy 141 ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
Db 427 CCCATCTGGATTATTATATTGGTGTGATATTGTCATCATCATAGTTGCAATTGCACATA 486
Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTTATCAGGGATCTGGCAACGTCAGAGAAAGAACAAAGAACCATCTGAAGTGGAT 546
Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GACGCTGAAGTAAGTGTGAAACATGATCACAATTGAATAATGGCATCCCTCTGATCCC 606
Qy 201 LeuAspMetLysGlyIleIleLeuMetMetProSer 212
Db 607 CTGGACATCAAGGGGGCATATTATGATGCCTTCA 642
RESULT 13
US-09-992-598-386
; Sequence 386, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrata, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary B.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C20
CURRENT APPLICATION NUMBER: US/09/992,598
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 3,65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.0% Conservatives: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 100.0% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-992-598-386 (1-1346)

QY 1 MetLeuTrpLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 7 ATGTTGTGGCTGCTCTTTTCTGGTGAAGTCCCATTCATGCTGAACCTGTCTCAACAGGT 66
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 67 GCAGAAATGCTTTTAAAGTGAAGCTTAGTATCAGACAGCTCTGGAGATAAGCATAT 126
QY 41 AlaTrpAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 127 GCCTGGGATACCAATGAAGATACCTCTTCAGAGCATGCTCTTCATGAGAGAAA 186

QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 187 GTTCCCAACAGAGAAAGCAAGAAATTTCCATGTCCTACTTTGCAATGTAACCCAGAGG 246
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 247 GTATCATCTCTGTTTGTGTTACAGACCCCTTCAAAAATCACAACCCCTTCTCTGCTGTTGAG 306
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 307 GTGCAATCAGCCATGAAGATGAACAAGAACCGGATCAACAATGCCCTTCTTTCTAAATGAC 366
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 367 CAAACTCTGGAATTTTAAAAATCCCTTCACACTTGCACCCACCCATGGACCCATCTGTG 426
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 427 CCCATCTGGATTATATATTTGGTGATATTTGGCATCATCATAGTTGCAATTGCACATA 486
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
DB 487 CTGATTTTATCAGGGATCTGGCAACGCTAGAAGAAAGAACAAAGAACCATCTGAAGTGGAT 546
QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 547 GACGCTGAAGATAAGTGTGAAGACATGATCACAATTTGAATAATGGCATCCCTCTGATCCC 606
QY 201 LeuAspMetLysGlyIleLeuMetMetProSer 212
DB 607 CTGGACATGAGGGGGGCATATTATGATGCTTCA 642

RESULT 14

US-09-989-293A-386
Sequence 386, Application US/09989293A
Patent No. US20020177164A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC66
CURRENT APPLICATION NUMBER: US/09/989,293A
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311

1	PRIOR FILING DATE: 1997-11-13	
2	PRIOR APPLICATION NUMBER: 60/066770	
3	PRIOR FILING DATE: 1997-11-24	
4	PRIOR APPLICATION NUMBER: 60/075945	
5	PRIOR FILING DATE: 1998-02-25	
6	PRIOR APPLICATION NUMBER: 60/078910	
7	PRIOR FILING DATE: 1998-03-20	
8	PRIOR APPLICATION NUMBER: 60/083322	
9	PRIOR FILING DATE: 1998-04-28	
10	PRIOR APPLICATION NUMBER: 60/084600	
11	PRIOR FILING DATE: 1998-05-07	
12	PRIOR APPLICATION NUMBER: 60/087106	
13	PRIOR FILING DATE: 1998-05-28	
14	PRIOR APPLICATION NUMBER: 60/087607	
15	PRIOR FILING DATE: 1998-06-02	
16	PRIOR APPLICATION NUMBER: 60/087609	
17	PRIOR FILING DATE: 1998-06-02	
18	PRIOR APPLICATION NUMBER: 60/087759	
19	PRIOR FILING DATE: 1998-06-02	
20	PRIOR APPLICATION NUMBER: 60/087827	
21	PRIOR FILING DATE: 1998-06-03	
22	PRIOR APPLICATION NUMBER: 60/088021	
23	PRIOR FILING DATE: 1998-06-04	
24	PRIOR APPLICATION NUMBER: 60/088025	
25	PRIOR FILING DATE: 1998-06-04	
26	PRIOR APPLICATION NUMBER: 60/088026	
27	PRIOR FILING DATE: 1998-06-04	
28	PRIOR APPLICATION NUMBER: 60/088028	
29	PRIOR FILING DATE: 1998-06-04	
30	PRIOR APPLICATION NUMBER: 60/088029	
31	PRIOR FILING DATE: 1998-06-04	
32	PRIOR APPLICATION NUMBER: 60/088030	
33	PRIOR FILING DATE: 1998-06-04	
34	PRIOR APPLICATION NUMBER: 60/088033	
35	PRIOR FILING DATE: 1998-06-04	
36	PRIOR APPLICATION NUMBER: 60/088326	
37	PRIOR FILING DATE: 1998-06-04	
38	PRIOR APPLICATION NUMBER: 60/088167	
39	PRIOR FILING DATE: 1998-06-05	
40	PRIOR APPLICATION NUMBER: 60/088202	
41	PRIOR FILING DATE: 1998-06-05	
42	PRIOR APPLICATION NUMBER: 60/088212	
43	PRIOR FILING DATE: 1998-06-05	
44	PRIOR APPLICATION NUMBER: 60/088217	
45	PRIOR FILING DATE: 1998-06-05	
46	PRIOR APPLICATION NUMBER: 60/088655	
47	PRIOR FILING DATE: 1998-06-09	
48	PRIOR APPLICATION NUMBER: 60/088734	
49	PRIOR FILING DATE: 1998-06-10	
50	PRIOR APPLICATION NUMBER: 60/088738	
51	PRIOR FILING DATE: 1998-06-10	
52	PRIOR APPLICATION NUMBER: 60/088742	
53	PRIOR FILING DATE: 1998-06-10	
54	PRIOR APPLICATION NUMBER: 60/088810	
55	PRIOR FILING DATE: 1998-06-10	
56	PRIOR APPLICATION NUMBER: 60/088824	
57	PRIOR FILING DATE: 1998-06-10	
58	PRIOR APPLICATION NUMBER: 60/088826	
59	PRIOR FILING DATE: 1998-06-10	
60	PRIOR APPLICATION NUMBER: 60/088958	
61	PRIOR FILING DATE: 1998-06-11	
62	PRIOR APPLICATION NUMBER: 60/088961	
63	PRIOR FILING DATE: 1998-06-11	
64	PRIOR APPLICATION NUMBER: 60/088976	
65	PRIOR FILING DATE: 1998-06-11	
66	PRIOR APPLICATION NUMBER: 60/089105	
67	PRIOR FILING DATE: 1998-06-12	
68	PRIOR APPLICATION NUMBER: 60/089440	
69	PRIOR FILING DATE: 1998-06-16	
70	PRIOR APPLICATION NUMBER: 60/089512	
71	PRIOR FILING DATE: 1998-06-16	
72	PRIOR APPLICATION NUMBER: 60/089514	
73	PRIOR FILING DATE: 1998-06-16	

;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Alignment Scores:

Pred. No.: 3,65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-989-293A-386 (1-1346)

Qy 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ATGTGTGCTGCTCTCTTTTCTGGTGCATTCATCTGTAACCTCTGTCAACAGGT 66
Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTy 40
Db 67 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCGAACAGCTCTGGAGATAAAGCATAT 126
Qy 41 AlaTrpAspThrAsnGluGluTyLeuPheLysAlaMetValAlaPheSerMetArgLys 60
Db 127 GCCTGGGATACCAATGAAGAATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA 186
Qy 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
Db 187 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTACTTTGGCAATGTAAACCCAGAG 246
Qy 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
Db 247 GTATCATCTGGTTGTGGTTACAGACCTTCAAAAATCACACCTTCTCTGCTGTGTAG 306
Qy 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
Db 307 GTGCAATCAGCCATAAGATGAACAAGACCGGATCAACAATGCCCTTCTTCTAAATGAC 366
Qy 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal 140
Db 367 CAAACTCTGGAATTTTAAAAATCCCTTCCACACTTGCACCCACCCATGGACCCATCTGTG 426
Qy 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
Db 427 CCATCTGGATTAATTAATTTGTGTGATATTTTGGATCATCATAGTTGCAATGGACTA 486
Qy 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
Db 487 CTGATTTTATCAGGATCTGGCAACGTAGAGAAAGAACAAAGAACCATCTGAAGTGGAT 546
Qy 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
Db 547 GACGCTGAAGATAGTGTGAACACATGATCACAAATTTGAAAATGGCATCCCTCTGATCCC 606
Qy 201 LeuAspMetLysGlyGlyIleLeuMetMetProSer 212
Db 607 CTGGACATGAGGGGGGGCATATTAATGATGCTTCA 642

RESULT 15

US-09-989-735-386

; Sequence 386, Application US/09989735

;; Publication No. US20020193299A1
;; GENERAL INFORMATION:
;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas P.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P27301C61
;; CURRENT APPLICATION NUMBER: US/09/989,735
;; CURRENT FILING DATE: 2001-11-19
;; PRIOR APPLICATION NUMBER: 60/049787
;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/065186
;; PRIOR FILING DATE: 1997-11-12
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066770
;; PRIOR FILING DATE: 1997-11-24
;; PRIOR APPLICATION NUMBER: 60/075945
;; PRIOR FILING DATE: 1998-02-25
;; PRIOR APPLICATION NUMBER: 60/078910
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/087106
;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/087607
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087609
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087759
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087827
;; PRIOR FILING DATE: 1998-06-03
;; PRIOR APPLICATION NUMBER: 60/088021
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088025
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088026
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088028
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088029
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088030
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088033
;; PRIOR FILING DATE: 1998-06-04

```
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429

; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Alignment Scores:
Pred. No.: 3.65e-147 Length: 1346
Score: 1102.00 Matches: 212
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-989-724-387 (1-212) x US-09-989-735-386 (1-1346)

Qy 1 MetLeuTrpLeuLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
Db 7 ANGTGTGGCTGCTCTTTTCTGTGACTGCCATTGCTGAACTCTGTCAACAGT 66
Qy 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
Db 67 GCAGAAATGCTTTTAAGTCAGACTTAGTATCAGAACAGCTCTCGGAGATAAAGCATAT 126
Qy 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
```

127	Db		GCCTGGGATACCAATGAAAGATACTCTTTCAAGCGATGGTAGCTTTCTCCATGAGAAA	186
61	Qy		ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg	80
187	Db		GTTCCTCCACAGAGAGACACAGAAATTTCCCATGTCCTTTGCAATGTAAACCGAGG	246
81	Qy		ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu	100
247	Db		GTATCATTTCTGGTTGTGGTTTACAGACCCCTTCAAAAAATCACACCTTCTTGCTGTGAG	306
101	Qy		ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp	120
307	Db		GTGCAATCAGCCATTAAGAATGAACAAGAACCGGATCAACAATGCCCTTCTTTCTAAATGAC	366
121	Qy		GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal	140
367	Db		CARACTCTGGAAATTTTAAATAATCCCTTCCACACTTGCACACCCATGGACCCCATCTGTG	426
141	Qy		ProfileTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu	160
427	Db		CCCATCTGGATTATTATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTCGACTA	486
161	Qy		LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp	180
487	Db		CTGATTTTATCAGGGAICTGGCAGCTAGAGAAAGAACCAAGAACCATCTGTAAGTGGAT	546
181	Qy		AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro	200
547	Db		GACCGCTGAAGATAAGTGTGAANAACATGATCACAAATTGAANAATGGCATCCCTCTGATCCC	606
201	Qy		LeuAspMetLysGlyGlyIleLeuMetMetProSer	212
607	Db		CTGACATGTAAGGGGGGGCATATTATATGATGCTCTTCA	642

Search completed: April 4, 2004, 05:10:36
Job time : 417 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 31, 2004, 12:03:15 ; Search time 21 Seconds
(without alignments)
971.076 Million cell updates/sec

Title: US-09-989-724-387
Perfect score: 1102
Sequence: 1 MLWLLFLVTAHAEALCPG.....ENGIPSDPLDMKGILMPS 212

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	376	34.1	804	TI4762	hypothetical prote
2	97.5	8.8	1086	TI8523	integrin alpha cha
3	94	8.5	704	T29996	hypothetical prote
4	92.5	8.4	1153	T31080	nitric-oxide synth
5	89.5	8.1	244	E86471	unknown protein [i
6	89.5	8.1	793	D38992	cadherin 8 - human
7	89.5	8.1	1188	TI3933	pol polyprotein -
8	89	8.1	1054	JC7294	alphaP integrin -
9	88	8.0	363	A37009	CD44 homolog membr
10	88	8.0	365	A34424	CD44 membrane glyc
11	86	7.8	362	A35616	T-cell surface gly
12	86	7.8	503	B38745	cell adhesion mole
13	85.5	7.8	667	T47482	receptor-like prot
14	84.5	7.7	468	E81924	probable two-compo
15	84.5	7.7	536	JG0022	flagellar basal-bo
16	84.5	7.7	1112	T28082	hypothetical prote
17	84	7.6	428	T48167	hypothetical prote
18	83.5	7.6	1337	I38670	protein-tyrosine-p
19	83	7.5	525	B83957	flagellar basal-bo
20	82.5	7.5	1044	S16516	integrin alpha-b
21	81.5	7.4	252	T05813	hypothetical prote
22	81.5	7.4	1048	A27421	integrin alpha-5 c
23	81	7.4	1041	T21437	integrin alpha cha
24	81	7.4	1135	I61186	alpha-7 integrin -
25	80.5	7.3	1034	A36108	integrin antigen c
26	80	7.3	234	Q08E43	membrane antigen g
27	80	7.3	489	AF2970	conserved hypothet
28	80	7.3	489	D98312	hypothetical prote
29	79.5	7.2	1044	T10050	integrin alpha-v c

30 79 7.2 437 2 S73284
31 79 7.2 2029 1 T0PFLK
32 78.5 7.1 548 2 F11732
33 78.5 7.1 836 2 T08424
34 78 7.1 343 2 A35639
35 78 7.1 377 2 AB0715
36 78 7.1 732 1 IJCHCB
37 78 7.1 1022 2 S49127
38 77.5 7.0 351 2 S45305
39 77.5 7.0 370 2 H64545
40 77.5 7.0 468 2 G81180
41 77.5 7.0 1499 2 I50212
42 77 7.0 322 2 S75428
43 77 7.0 366 2 A69063
44 77 7.0 541 2 D97322
45 77 7.0 1045 2 S60571

hypothetical prote
protein-tyrosine-p
ABC transporter AT
tweety protein - f
g protein-coupled
probable membrane
B-cadherin precurs
Na+/K+-exchanging
CD44 antigen precu
lipopolysaccharide
sensor histidine k
protein-tyrosine-p
UDP-N-acetylglucos
O-antigen transpor
probable membrane-
integrin alpha v c

ALIGNMENTS

RESULT 1

TI4762
hypothetical protein DKFZp434A014.1 - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999
C:Accession: TI4762
R:Wambutt, R.; Heubner, D.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, August 1999
A:Reference number: Z18181
A:Accession: TI4762
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-804 <WAM>
A:Cross-references: EMBL:AL110224
A:Experimental source: adult testis; clone DKFZp434A014
C:Genetics:
A>Note: DKFZp434A014.1

Query Match 34.1%; Score 376; DB 2; Length 804;
Best Local Similarity 47.9%; Pred. No. 1.7e-26;
Matches 79; Conservative 32; Mismatches 48; Indels 6; Gaps 3;
QY 19 PGAEAPKVRISIRITAGDKAYANDTNEEYLPKAMVAFSMR----KVPNRBAT-BTSHVL 73
DB 611 PYAQSIKVRISLKSALGDKAYEMNDNEMYLFRSSVAYAMROYFLKVRKQMLFGEDVR 670
QY 74 LCVNTQRVSVFWVTDPSK-NHTLPAPVEVQSAIRNNKRNINNAFFINDQTLFLKIPSTL 132
DB 671 VANLKPRISFNFFVTAPKNVSDIIPRTEVKAIRMSRINDAFRLNDSLEFLGIQPTL 730
QY 133 APPMDPSVPIIIFGVIFCIIVVAIALLLSGIWRORRKEPS 177
DB 731 GPPNQPPSVIWLIVGVGVGVIVGVILFTGIRDKKKKKARS 775

RESULT 2

TI8523
integrin alpha chain - Geodia cydonium
C:Species: Geodia cydonium
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 20-Jun-2000
C:Accession: TI8523
R:Pancer, Z.; Kruse, M.; Mueller, I.; Mueller, W.E.G.
Mol. Biol. Evol. 14, 391-398, 1997
A:Title: On the origin of adhesion receptors of metazoa: Cloning of the integrin alpha
A:Reference number: Z18946; MUID:97254987; PMID:9100369
A:Accession: TI8523
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-1086 <PAN>
A:Cross-references: EMBL:X97283; PIDN:CAA65943.1
C:Function:
A>Description: signal transduction

C:Superfamily: integrin alpha-4 chain

Query Match 8.8%; Score 97.5; DB 2; Length 1086;
Best Local Similarity 25.5%; Pred. No. 0.93;
Matches 36; Conservative 24; Mismatches 52; Indels 29; Gaps 6;
QY 63 NREATEISHVL-----LCNTQVSFWFVTDPSKNTLPAVEQSAIRNKNRINAPFL 118
DB 963 NRQVSEISAVIDRHHAGDSYTFP-----PSAQ-----VEMVGDHINESNTKD----- 1007
QY 119 NDQTLFLKIPSTLAPPM-----DPSVPIWIIIFGVICIIIVAIALLILSGIWRQRKN 173
DB 1008 NNASAEFRSIPGLVVPSSGDDSPVWVIAVPIIAAVILIIVAVVLYPCGPRRN 1067
QY 174 KEPSEVDDAEDKCNMTIEN 194
DB 1068 KQ-----ETEDQARENLAEN 1083

RESULT 3

T29996
hypothetical protein C43H6.9 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 18-Feb-2000
C:Accession: T29996
R:Leu, T.T.
submitted to the EMBL Data Library, March 1996
A:Description: The sequence of C. elegans cosmid C43H6.
A:Reference number: Z20717
A:Accession: T29996
A:Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Residues: 1-704 <LET>
A:Cross-references: EMBL:U51999; PIDN:AAA96090.1; GSPDB:GN00028; CESP:C43H6.9
A:Experimental source: strain Bristol N2; clone C43H6
C:Genetics:
A:Gene: CESP-C43H6.9
A:Map position: X
A:Introns: 73/3; 143/3; 199/3; 349/2; 376/1; 422/2; 459/2; 523/1; 567/2; 635/2

Query Match 8.5%; Score 94; DB 2; Length 704;
Best Local Similarity 25.6%; Pred. No. 1.2;
Matches 54; Conservative 36; Mismatches 69; Indels 52; Gaps 13;
QY 38 KAYAWD-----TNE-EYLKAWAFSMRKNVNR-----EATEISHVLL--C 75
DB 477 KLAVDYPPVSDKFTNMRYQESKLPWMDTAVDRVLSVDGFAFTGDATEIKYAAALTC 536
QY 76 NVTQVSFWFVTDPSKNTLPAVEQSAIRNKNRINNA--FFLNDQTLBELK----- 127
DB 537 NQQ-----VGTFSRK---PYAIAVQSG-HILKDKISSAILMLNRRRLTKEKWWT 586
QY 128 -IPSTLAPP--MDPSVPIWIIIFGVICIIIVAIALLILS-----GIWQRRRNKEPSEV 179
DB 587 DNPKNVSCDSDSDGISIGNIGGVIVILAGIALISIVTLAPEYIIYKAKAKAEKQ 646
QY 180 DDAEDKCNMTIE-----NGIPSDPDLDMKG 206
DB 647 EELEMQSQGVVNGPNTGTVKQDAPKLING 677

RESULT 4

T31080
nitric-oxide synthase (EC 1.14.13.39) - great pond snail
C:Species: Lymnaea stagnalis (great pond snail)
C:Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 19-May-2000
C:Accession: T31080
R:Korneev, S.A.; Piper, M.R.; Picot, J.; Phillips, R.; Korneeva, E.I.; O'Shea, M.
J. Neurobiol. 35, 65-76, 1998
A:Title: Molecular characterization of NOS in a mollusc: expression in a giant modulator
A:Reference number: Z20970; MUID:98211896; PMID:9552167
A:Accession: T31080
A:Status: preliminary; translated from GB/EMBL/DDBJ

A:Molecule type: mRNA

A:Residues: 1-1153 <KOR>
A:Cross-references: EMBL:AF012531; NID:g3158018; PID:g3158019; PIDN:AAC17487.1
C:Genetics:
A:Gene: NOS
C:Function:
A:Description: catalyzes the oxidation of an L-arginine guanidino nitrogen and of NADP.
C:Superfamily: nitric-oxide synthase; flavodoxin homology; NADPH-ferrihemoprotein reductase; FAD; flavoprotein; FMN; heme; iron; metalloprotein; NADP; oxidoreductase;
F;82/binding site: heme iron (Cys) (axial ligand) #status predicted

Query Match 8.4%; Score 92.5; DB 2; Length 1153;
Best Local Similarity 21.1%; Pred. No. 2.9; 76; Indels 135; Gaps 13;
Matches 64; Conservative 28; Mismatches 76; Indels 135; Gaps 13;
QY 21 AENAPKVRLSIRTAGDKAYAMDTEEYLFKA-WVAFSMRKVPNR-----ATEI----- 69
DB 689 AHNA-----TDLKYPGDHVAIPFANSPEIIVDAILVRLDTSGKSPDQVVKTEISTQLGTN 744
QY 70 -----SHVLLCNVTQVSFWFVTDPSKNTLPAVEQSAIRNKNRI-----NNAPF----- 117
DB 745 DTWRSHLPICTSRTAFSFLLDVTPPSQEIQLVLTATQASDDMDKHLKLEQLASNSEAYEKW 804
QY 118 -----LNDQTLF-----LKIPLTL----- 132
DB 805 RLDSLSPNLEILDEPPSLKIPPSLLLTQLPLQPRYISSSQKKNPNEVHATIAVVRFK 864
QY 133 -----AP-----PMDPSVPIWIIIFGVICIIIV 156
DB 865 TQDGGPVHEGVCSWLNRSPIGTVPVCFLSAPHPHLPEDPSLPIIMIGPG----- 916
QY 157 ATALLISGI-----WQRRRNKEPSEVDDADKCN-MITTEINGIPSDPLMKGGILM 209
DB 917 -----SGIAPFRSFWOQL-----GEIENTWPSCENTMLSCETTIPSCENSMPSCENT 964
QY 210 MPS 212
DB 965 MPS 967

RESULT 5

E86471
unknown protein [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 24-Aug-2001
C:Accession: E86471
R:Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso,
Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.
ansen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-820, 2000
A:Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim,
C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziani,
Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A:Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon,
ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A:Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A:Reference number: A86141; MUID:21016719; PMID:11130712
A:Accession: E86471
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-244 <STO>
A:Cross-references: GB:AE005172; NID:g11386315; PIDN:AAG35106.1; GSPDB:GN00141
C:Genetics:
A:Map position: 1
C:Superfamily: Arabidopsis thaliana hypothetical protein F7M19.50

Query Match 8.1%; Score 89.5; DB 2; Length 244;
Best Local Similarity 24.7%; Pred. No. 0.87; 52; Indels 37; Gaps 9;
Matches 39; Conservative 30; Mismatches 52; Indels 37; Gaps 9;

QY 3 WLLFFVLVTAHRELCPGAEAFKVL-----SIRTAGDK--AYAWDTNEEYLFKA 52
DB 17 WTICVMVRIYKILNP---NAFELNVLADWGTQIEATIGRFSAFYEDRIKENQMT 73

Query Match 8.1%; Score 89.5; DB 2; Length 1188;
Best Local Similarity 24.8%; Pred. No. 5.6;
Matches 34 Conserved 27; Mismatches 41; Indels 25.

QY	5	LFFVLVTAIHSLCQFGAENAPKVLSTRTALGDKRAYADWTNBEYILFKAMVAI ⁶ SMRKVPNR ⁶	60
QY	81	LNYQISPIHAECTKPS-----RLTSRDSNGQIRIWDNICKFL-----PSKPREPNR ¹²⁷	127
QY	65	EAT-----EISHLVLCNV-------TQVSYFQVVTDPSPKNHTLPAY-EVQSAR ¹⁰⁶	106
Db	128	NKSHRWIMELTKFLCKVDTGTSTINLMKTNLNF-PVYNETLKVHTINGVIELKQSI ¹⁸⁶	186
QY	107	MNQVRI---NNAPFLND ¹²⁰	120
Db	187	LGASKICPSKOKPYIHD ²⁰³	203

RESULT 8
JC7294
alpha integrin - sea urchin (Strongylocentrotus purpuratus)
C;Species: Strongylocentrotus purpuratus (purple urchin)
C;Date: 18-Aug-2000 #sequence_revision 18-Aug-2000 #text_change 02-Sep-2000
C;Accession: JC7294

R; Susan, J.M.; Just, M.L.; Lennarz, W.J.
 Biochem. Biophys. Res. Commun. 272, 929-935, 2000
 A; Title: Cloning and characterization of alphaP integrin in embryos of the sea
 A; Reference number: JC7294

A;Reference number: JC7294
A;Contents: Embryo
A;Accession: JC7294
A;Molecule type: mRNA
A;Residues: 1-1054 <SUS>
A;Cross-references: GB:AA055724

C:Genetics:
A:Gene: sualphap
C:Superfamily: integrin alpha-2b chain

C;Keywords: calcium binding; embryo; glycolysis; glycoprotein; heterodimer; tr

Best Local Similarity 20.5%; Pred. No. 5.4;
Matches 56; Conservative 30; Mismatches 59; Indels 128; Gaps 13

[illegible]

QY 51 -----KAMVAFSRMKVPNRE-----ATEISHVLL-CNVTQ--- 79

Db 846 PLGVGLEASTKQLSNSTTVQSGRRKREGEVAAEAQAEPFCTPESCVLINCTIDEIKA 905

```

Qy 80 -----RV--SFWVTDPKQHTLPATVQVSAIRMMKNRINNAFFLNQDTLEFLKJEST 131
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 906 TKSQRILGRFERTQKAVSEAPVQVTLA-----STATATVRSIPYN 951

```

```

Qy 132 LAPPMD-----PSVPI--WIIFGVFCIIIVALLILSGIWQ--- 168
      : ||: | | | | | | | | | | | | | | | | | | | |
Db 952 IPPEMFTDSTKASTLTABELVLPVPSIAWIIIVSVLGGIILL---LIILGLWKKCF 1008

```

Qy 169 -RRRKNKE-----PSEYDDAEDK 185
|:|
1000 PSEYDDAEDK-----PSEYDDAEDK 1041

Db 1009 FERKPGEDQKEYEPVAVTEKDPPEVYDAPDR 1041

RESULT 9

CD44 homolog membrane glycoprotein precursor - mouse
A37009
C:Species: Mus musculus (house mouse)
C>Date: 21 Jan 1993
C:Accession: M12000
C:Release: 21 Jan 1993
C:Update: 21 Jan 1993
C:Version: 1.0

C;Date: 31-Jan-1992 #sequence_revision 31-Jan-1992 #text_change 21-Jul-2000
C;Accession: A37009

Qy	53	MVAISMRKVPNREATE	-----ISHVLLCNVTOR-----	VSFPFVTVDPKSNH	94
Db	74	ITTFELVR--PNC EAIKTPPHOFRILFMDHTVTS	TPRETGLLNKFTPF	FOYIVDDVVGND	131
Qy	95	TLPAVEVQSAIRMKRNINNAFFLNDQTL	LEFLKIPSTL		132
Db	132	TL--VDVIGAL-VNVGIMTNT-ASNENDMAGFL	PFETI		165

RESULT 6
D38992
cadherin 8 - human
C:Species: Homo sapiens (man)
C:Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 21-Jan-2000
C:Accession: D38992
R:Suzuki, S.; Sano, K.; Tanihara, H.
Cell Regul. 2, 261-270, 1991
A>Title: Diversity of the cadherin family: evidence for eight new cadherins in nervous t
A:Reference number: S24305; MUID:91283540; PMID:20596658

A:Molecule type: mRNA
A:Residues: 1-793 <SUZ>
A:Cross-references: GB:L34060; NID:g506411; PIDN:AAA35628.1; PID:g506412
C:Genetics:
A:Gene: GDB:CDH8
A:Cross-references: GDB:5822911

C:Superfamily: cadherin; cadherin repeat homology
C:Keywords: calcium binding; cell adhesion; duplication
F:163-269/Domain: cadherin repeat homology <CDH>

Query Match 8.11; Score 89.5; DB 2; Length 793;
Best Local Similarity 20.68; Pred. No. 3.5;
Matches 50; Conservative 35; Mismatches 93; Indels 65; Gaps 10;
QY 13 HAEICQGAENNAFKVRLSITLGDKAYADT-----NEEYLPKAMVAFSMRKVPN 63

Db 425 HTDLERQFNADGKITLATPDLRELSVWHNITIIATERNHSQISRPVPAIKVLDV-N 483

Qy	64	R E A T E I S --- H V L C ----- N T Q R V S F M F V V D P S K N H ----- T L P A Y E V Q S A I R M N K	109
Db	484	D N A P E F A S Y E A F I C E N G K G Q V T Q T V S A - M D K D P Y K G H Y F L Y S L L P V M V N N P N F T I K K	542

Qy 110 NRINNAPFL-----NDQTLEFLKIPSTLA----PPMDPSVPIWIIIFG----- 148
| | : | | : | : || : | : | :
Dd 543 NEDNSLSILAKHNGFNKKQEVYLLPILIIDSGNPPLSSSTLTIRVCGSGNQGWSGN 602

Q7 149 -----VIFCIIVATALLLSGIWRRRNKEPSEVDAEDKCNMIT 191
DB 503 VBAVULGHSMAIATATLITLVIVUE--VTPRPHQVETPTIHDENWVITP 650
C13 NEENCLGOTARNNG:NNQANQSVIMF:IIIDDSQGF:SSJ:SI:SI:II:II:VCCGQNDVWQCN 002

DB	603	VEAYVLPIGLSMGALIAILACIILLLVIVLFF--VTLRHQKNEPLIKKDEVDRENIIR	660
QY	192	IEN	194
		::	::

Db 661 YDD 663

TI3933
pol polyprotein - fruit fly (*Drosophila virilis*) retrotransposon Tv1 (fragment)
C;Species: *Drosophila virilis*

C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 17-Nov-2000
C;Accession: T13933
R;Andrianov, B.V.; Zakhar'ev, V.M.; Evgen'ev, M.B.; Schuppe, N.G.
submitted to the EMBL Data Library, April 1999

submitted to the EMBL Data Library, April 1998
A;Description: Gypsy group retrotransposon Tv1 from *Drosophila virilis*.
A;Reference number: Z17816
A;Accession: T13933

A;Accession: J13755
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1188 <AND>
A;Gene: rnfA00000. DMDY R3065940. NIDN-23403319. NIDN-23403319. NIDN-23403319. NIDN-23403319.

A; Cross-references: EMBL:AF056940; NID:g3493212; PID:g3493214; PIDN:AAC33318.1
C; Genetics:

R.; Zhou, D.P.H.; Ding, J.F.; Picker, L.J.; Bargatze, R.F.; Butcher, E.C.; Goeddel, D.V.
J. Immunol. 143, 3390-3395, 1989
A:Title: Molecular cloning and expression of Pgp-1. The mouse homolog of the human H-CAM
A:Reference number: A37009; MUID:90038499; PMID:2681416
A:Accession: A37009
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-363 <ZHO>
A:Cross-references: GB:M3655; NID:g200332; PIDN:AAA39922.1; PID:g200333
C:Superfamily: human cell adhesion protein CD44
C:Keywords: cell adhesion; glycoprotein; membrane protein

Query Match 8.0%; Score 88; DB 2; Length 363;
Best Local Similarity 21.6%; Pred. No. 1.9; Mismatches 30; Indels 34; Gaps 3;
Matches 24; Conservative 23;

QY 128 IPSTLAPMDPSVPPIIIFGVIFCIIVAIALLILSGIWQRRR-----171
DB 256 VTTTSGPMRRPQIPEWLI---LASLLALILAVCIANRRRCQKKLVINGGNGTV 312
QY 172 KNKPSEVDADCKENMITIENGIPSD-----PLDMKGI 207
DB 313 EDRKPSSELNGEASKSQEMVHLVNKEPSETPDQMTADETRNLSQVDMKIGV 363

RESULT 10
A34424
CD44 membrane glycoprotein precursor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 15-Jun-1990 #sequence_revision 15-Jun-1990 #text_change 01-Dec-2000
C:Accession: A34424; A34907
R:Nottenburg, C.; Rees, G.; St. John, T.
Proc. Natl. Acad. Sci. U.S.A. 86, 8521-8525, 1989
A:Title: Isolation of mouse CD44 cDNA: structural features are distinct from the primate
A:Reference number: A34424; MUID:90046829; PMID:2682651
A:Accession: A34424
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-365 <NOT>
A:Cross-references: GB:M27130; NID:g192530; PIDN:AAA37407.1; PID:g309161
R:Wolfe, E.J.; Gause, W.C.; Pelfrey, C.M.; Holland, S.M.; Steinberg, A.D.; August, J.T.
J. Biol. Chem. 265, 341-347, 1990
A:Title: The cDNA sequence of mouse Pgp-1 and homology to human CD44 cell surface antigen
A:Reference number: A34907; MUID:90094420; PMID:2403559
A:Accession: A34907
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 8-195, 'G', 197-365 <WOL>
A:Cross-references: GB:J05163; NID:g200334; PIDN:AAA39923.1; PID:g200335
C:Superfamily: human cell adhesion protein CD44
C:Keywords: cell adhesion; glycoprotein; membrane protein

Query Match 8.0%; Score 88; DB 2; Length 365;
Best Local Similarity 21.6%; Pred. No. 1.9; Mismatches 30; Indels 34; Gaps 3;
Matches 24; Conservative 23;

QY 128 IPSTLAPMDPSVPPIIIFGVIFCIIVAIALLILSGIWQRRR-----171
DB 258 VTTTSGPMRRPQIPEWLI---LASLLALILAVCIANRRRCQKKLVINGGNGTV 314
QY 172 KNKPSEVDADCKENMITIENGIPSD-----PLDMKGI 207
DB 315 EDRKPSSELNGEASKSQEMVHLVNKEPSETPDQMTADETRNLSQVDMKIGV 365

RESULT 11
A35616
T-cell surface glycoprotein CD44 - hamster
C:Species: Cricetinae gen. sp. (hamster)
C:Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 21-Jul-2000
C:Accession: A35616
R:Aruffo, A.; Stamenkovic, I.; Melnick, M.; Underhill, C.B.; Seed, B.
Cell 61, 1303-1313, 1990

A:Title: CD44 is the principal cell surface receptor for hyaluronate.
A:Reference number: A35616; MUID:90304889; PMID:1694723
A:Accession: A35616
A:Status: nucleic acid sequence not shown; not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-362 <ARU>
C:Superfamily: human cell adhesion protein CD44
C:Keywords: cell adhesion; glycoprotein; transmembrane protein

Query Match 7.8%; Score 86; DB 2; Length 362;
Best Local Similarity 22.0%; Pred. No. 2.9; Mismatches 29; Indels 34; Gaps 3;
Matches 24; Conservative 22;

QY 130 STLAPMDPSVPPIIIFGVIFCIIVAIALLILSGIWQRRR-----KN 173
DB 257 TTSRPRKQIPEWLI---VLASLLALILAVCIANRRRCQKKLVINGGNGKVED 313
QY 174 KPSPSEVDADCKENMITIENGIPSDP-----LDMKGI 207
DB 314 RKPSELNGEASKSQEMVHLVNKEPSETPDQMTADETRNLSQVDMKIGV 362

RESULT 12
B38745
cell adhesion molecule CD44 precursor, long form (meta-1) - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 24-Jan-1992 #sequence_revision 24-Jan-1992 #text_change 05-Nov-1999
C:Accession: B38745; A38745
R:Guenther, U.; Hofmann, M.; Rudy, W.; Reber, S.; Zoeller, M.; Haubmann, I.; Matzku, A.
Cell 65, 13-24, 1991
A:Title: A new variant of glycoprotein CD44 confers metastatic potential to rat carcin
A:Reference number: B38745; MUID:91191552; PMID:1707342
A:Accession: B38745
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-503 <GUE>
A:Cross-references: GB:M61874; NID:g576534; PIDN:AAA53534.1; PID:g576535
A:Accession: A38745
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-223, 386-503 <GU2>
A:Cross-references: GB:M61875
C:Keywords: cell adhesion

Query Match 7.8%; Score 86; DB 2; Length 503;
Best Local Similarity 20.7%; Pred. No. 4.3; Mismatches 30; Indels 34; Gaps 3;
Matches 23; Conservative 24;

QY 128 IPSTLAPMDPSVPPIIIFGVIFCIIVAIALLILSGIWQRRR-----171
DB 396 VTTTSGPMRRPQIPEWLI---LASLLALILAVCIANRRRCQKKLVINGGNGTV 452
QY 172 KNKPSEVDADCKENMITIENGIPSD-----PLDMKGI 207
DB 453 EDRKPSSELNGEASKSQEMVHLVNKEPSETPDQMTADETRNLSQVDMKIGV 503

RESULT 13
T47482
receptor-like protein kinase - Arabidopsis thaliana
N:Alternate names: protein P18N11.180
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 02-Sep-2000
C:Accession: T47482
R:Jordan, N.; Bangert, S.; Wiedelmann, R.; Voss, H.; Unseld, M.; Mewes, H.W.; Lemcke, I.
submitted to the Protein Sequence Database, February 2000
A:Reference number: Z24467
A:Accession: T47482
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-667 <JOR>
A:Cross-references: EMBL:AL132953
A:Experimental source: cultivar Columbia; BAC clone F18N11

C:Genetics:
A:Map position: 3
A:Note: F18N1.180
C:Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; protein kinase homolo

Query Match 7.8%; Score 85.5; DB 2; Length 667;
Best Local Similarity 21.6%; Pred. No. 6.6;
Matches 37; Conservative 23; Mismatches 64; Indels 47; Gaps 6;

QY 81 VSFVFTDPSKNTLPVAVQSAIR-----MNNKRNINNAFF 117
DB 192 VQWIDYDGLNLTLPVAVQSAIR-----MNNKRNINNAFF 117

QY 118 LN-----DOTLEFLKIPSTLP-----PMDPSVPWIIIFGVFCIIIVAIALL 161
DB 252 LGWFSKSKBPMQSLDLKLPQAPIPRNEQAPVPREKKLHPLGLV--ILLVPIVLM 309

QY 162 ILSGI-WORRRNKKEPSEVDDAE-----DKCNMTIENGIPSDPLDMKGG 206
DB 310 VLGVTWTRKKYAEVKESWEKEYGPHYSYKSLYKATNGFVKDALVGKG 360

RESULT 14
E81924
Probable two-component system sensor kinase (EC 2.7.3.-) NMA0797 [imported] - Neisseria
C:Species: Neisseria meningitidis
C:Date: 05-May-2000 #sequence_revision 05-May-2000 #text_change 02-Feb-2001
C:Accession: E81924
R:Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.; Morel
H.; Holroyd, S.; Jagels, K.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; Rajandream,
Nature 404, 502-506, 2000
A:Title: Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491.
A:Reference number: A81775; UID:20222556; PMID:10761919
A:Accession: E81924
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-468 <PAR>
A:Cross-references: GB:AL162754; GB:AL157959; NID:97379424; PIDN:CAB84080.1; PID:9737951
A:Experimental source: serogroup A, strain Z2491
C:Genetics:
A:Gene: NMA0797
C:Keywords: phosphotransferase

Query Match 7.7%; Score 84.5; DB 2; Length 468;
Best Local Similarity 23.7%; Pred. No. 5.4;
Matches 47; Conservative 29; Mismatches 81; Indels 41; Gaps 9;

QY 21 AENAPKVLRSIRAL-----GDKAVADTNEEYLPKAVAFPMKRVNREATEI 69
DB 34 AENQPNQRTTETTLGSIISAFRAGD-AGAREILTETWK-DSPVSSGVYVIQGEKKDI 91

QY 70 SHVLICNVTVRSFVFTDPSKNTLPVAVQSAIRNNKRNIN--AFFLND-OTLEFL 126
DB 92 LHRVIDSTYIERARLPACGHPSN-----LVHIEYDFGEYEFYFTDWDKLOAR 141

QY 127 KIPSTLAPMDPSVPW-----IIIFGVFCII--VAIALLISGIWQR-----RR 171
DB 142 RLSPPLLPGLPLAPIWHELIILSPIIIVGLLMAYLAGNIAPKPIRILGNGMDRVANGEL 201

QY 172 KNKEPSEVDDAEKCNM 189
DB 202 ETRISQQVDRDRDELSHL 219

RESULT 15
JG0022
Flagellar basal-body M-ring protein flfip - Bacillus subtilis
C:Species: Bacillus subtilis
C:Date: 23-Nov-1991 #sequence_revision 23-Nov-1991 #text_change 21-Jul-2000
C:Accession: JG0022; A42365; B69624; S14494
R:Zuberi, A.R.; Ying, C.; Bischoff, D.S.; Ordal, G.W.
Gene 101, 23-31, 1991
A:Title: Gene-protein relationships in the flagellar hook-basal body complex of Bacillus

A:Reference number: JG0019; UID:91285431; PMID:1905667
A:Accession: JG0022
A:Molecule type: DNA
A:Residues: 1-536 <ZUB>
A:Cross-references: GB:M54965
R:Albertini, A.M.; Caramori, T.; Crabb, W.D.; Scoffone, F.; Galizzi, A.
J. Bacteriol. 173, 3573-3579, 1991
A:Title: The flxA locus of Bacillus subtilis is part of a large operon coding for flag
A:Reference number: A42365; UID:91258343; PMID:1828465
A:Accession: A42365
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 355-536 <ALB>
A:Cross-references: GB:M72718; EMBL:X56049; NID:939904; PIDN:CAA39520.1; PID:g397970909
R:Kunst, F.; Ogasawara, N.; Moser, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Bert
C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; C
A.; Ehrlich, S.D.; Emerson, P.T.; Entian, K.D.; Errington, J.; Fabbet, C.; Ferrari, E
Nature 390, 249-256, 1997
A:Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Gall
iech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.
Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois
A:Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Maguda, S.; Maue
V. M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetel
Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon
A:Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Ser
akeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama
T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida,
A:Authors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A.
A:Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis
A:Reference number: A69580; UID:98044033; PMID:9384377
A:Accession: B69624
A:Status: nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-536 <KUN>
A:Cross-references: GB:Z99112; GB:AL009126; NID:92633902; PIDN:CAB13494.1; PID:e118521
A:Experimental source: strain 168
C:Genetics:
A:Gene: flfip

Query Match 7.7%; Score 84.5; DB 2; Length 536;
Best Local Similarity 19.9%; Pred. No. 6.3;
Matches 39; Conservative 36; Mismatches 68; Indels 53; Gaps 8;

QY 9 VTAIAELCQPCGAENAFKVLRSIRALGDKAVADTNEEYLPKAVAFPMKRVNREATE 68
DB 352 VNRIHKEI---ASSPKVR-----DLGIQVWVEPPDAKNTASISLTERQDD 393

QY 69 ISHVLICNVTVRSFVFTDPSKNTLPVAVQSAIRNNKRNINNAFFLNDOTLEFLXI 128
DB 394 IQKIL--STVVRTS---LDKDETQNLSDADINKIVVSVQPFQDKVNLDTNTEB--- 444

QY 129 PSTLAPMDPSVPW--IIIFGVFCIIIVAIALLISGIWQRNRKKEPSEVDDAEKDC 187
DB 445 -----SSGIPLWAYIVGVLIIVLIMLI-----RKKRAQEDFESEYE-- 487

QY 188 NMITIENGIPSDPLDM 203
DB 488 -----VPQEPINL 495

Search completed: March 31, 2004, 12:07:17
Job time : 23 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 31, 2004, 12:02:04 ; Search time 18 Seconds
(without alignments)
613.271 Million cell updates/sec

Title: US-09-989-724-387

Perfect score: 1102

Sequence: 1 MLLPLPLVTAHRELCPG.....ENGIPSDPLDMKGGILMPS 212

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_42.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB ID	Description
1	92.5	8.4	1153	1 NOS_LYMST	O61309 lynnaea sta
2	91	8.3	623	1 SVR_SULTO	Q971x1 sulfolobus
3	90	8.2	799	1 CAD8_MOUSE	P97291 mus musculus
4	90	8.2	799	1 CAD8_RAT	O54800 rattus norv
5	89.5	8.1	1025	1 ITA8_HUMAN	P53708 homo sapien
6	89	8.1	799	1 CAD8_HUMAN	P55286 homo sapien
7	88	8.0	778	1 CD44_MOUSE	P15379 mus musculus
8	87	7.9	362	1 CD44_CRIGR	P20944 cricetus
9	86	7.8	431	1 CD44_MESAU	O60522 m cd44 anti
10	86	7.8	503	1 CD44_RAT	P26051 rattus norv
11	84.5	7.7	536	1 FLIF_BACSU	P23447 bacillus su
12	83.5	7.6	1337	1 FTFJ_HUMAN	Q12913 homo sapien
13	82.5	7.5	1044	1 ITA8_CHICK	P26009 gallus gall
14	82	7.4	1189	1 ITA8_HUMAN	Q9ukx5 homo sapien
15	81.5	7.4	363	1 LEU3_PHOLI	Q7nl28 photorhabd
16	81.5	7.4	1048	1 ITAV_HUMAN	P06756 homo sapien
17	81	7.4	1179	1 ITAV_MOUSE	O61738 mus musculus
18	80.5	7.3	1034	1 ITAV_CHICK	P26008 gallus gall
19	80	7.3	234	1 VGP8_BEV	Q29612 ceratopithe
20	79.5	7.2	393	1 ILIS_CERAE	P03224 epstein-bar
21	79.5	7.2	1044	1 YC44_MOUSE	P43406 mus musculus
22	79	7.2	437	1 YC44_PORPU	P51363 porphyra pu
23	79	7.2	611	1 RBT3_MOUSE	Q9cnc4 mus musculus
24	79	7.2	1033	1 ITAB_MOUSE	Q9qum0 mus musculus
25	79	7.2	2029	1 LAR_DROME	P16621 drosophila
26	78	7.1	343	1 MRGF_RAT	P23749 rattus norv
27	78	7.1	732	1 CADL_CHICK	P33145 gallus gall
28	78	7.1	1022	1 ALAI_ANGAN	Q92030 anguilla an
29	77.5	7.0	351	1 CD44_CANFA	Q28284 canis fami
30	77	7.0	322	1 GPT_SULSO	P96000 sulfolobus
31	76.5	6.9	363	1 LEU3_SALTY	P37412 salmonella
32	76.5	6.9	365	1 OP8R_XENLA	O12948 xenopus lae
33	76.5	6.9	475	1 MUC1_HYLLA	Q29435 hylobates l

ALIGNMENTS

```

RESULT 1
NOS_LYMST
ID NOS_LYMST STANDARD; PRT; 1153 AA.
AC O61309;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Nitric-oxide synthase (EC 1.14.13.39) (NOS, type I) (Neuronal NOS)
DE (N-NOS) (nmNOS).
GN NOS.
OS Lynnaea stagnalis (Great pond snail).
OC Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Basommatophora;
OC Lymnaeidae; Lymnaeidae; Lymnaea.
OX NCBI_TaxID=6523;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS LONG AND SHORT).
RC TISSUE=CNS;
RX MEDLINE=98211896; PubMed=9552167;
RA Korneev S.A., Piper M.R., Picot J., Phillips R., Korneeva E.I.,
RA O'Shea M.;
RT "Molecular characterization of NOS in a mollusc: expression in a giant
modulatory neuron.";
RL J. Neurobiol. 35:65-76(1998).
CC -!- FUNCTION: Produces nitric oxide (NO) which is a messenger molecule
with diverse functions throughout the body (By similarity).
CC -!- CATALYTIC ACTIVITY: L-arginine + N NADPH + H+ = citrulline +
nitric oxide + NADP(+).
CC -!- COFACTOR: Heme. Binds one mole each of FAD and FMN (By
similarity).
CC -!- ENZYME REGULATION: Stimulated by calcium/calmodulin.
CC -!- ALTERNATIVE PRODUCTS:
CC Event-Alternative splicing; Named isoforms=2;
CC Name=Long;
CC IsoId=O61309-1; Sequence=Displayed;
CC Name=Short;
CC IsoId=O61309-2; Sequence=VSP_003584;
CC -!- TISSUE SPECIFICITY: Expressed in the central nervous system, in
the serotonergic cerebral giant cells. Both the long and short
isoforms are expressed equally in the CNS.
CC -!- SIMILARITY: Belongs to the NOS family.
CC -!- SIMILARITY: Contains 1 flavodoxin-like domain.
-----
This SWISS-PROT entry is copyright. It is produced through a collaboration
between the Swiss Institute of Bioinformatics and the EMBL outstation -
the European Bioinformatics Institute. There are no restrictions on its
use by non-profit institutions as long as the content is in no way
modified and this statement is not removed. Usage by and for commercial
entities requires a license agreement (See http://www.isb-sib.ch/announce/
or send an email to license@isb-sib.ch).
-----
EMBL; AF012531; AAC17487.1; --
PIR; T31080; T31080.
HSSP; P29477; 1DD7.
InterPro; IPR003097; FAD binding.
InterPro; IPR008254; Flav nitro synth.
InterPro; IPR001094; Flavodoxin-like.

```

```

34 76 6.9 1337 1 YDM5_SCHPO P87136 echizosacch
35 75.5 6.9 549 1 YJCE_ECOLI P32703 escherichia
36 75.5 6.9 1255 1 MUC1_HUMAN P15941 h mucin 1 p
37 75 6.8 343 1 MRGF_MOUSE O8vcj6 mus musculus
38 75 6.8 357 1 OP8R_ORYLA P87367 oryzias lat
39 75 6.8 1007 1 GRD2_MOUSE O61625 mus musculus
40 75 6.8 1007 1 GRD2_RAT O63226 rattus norv
41 75 6.8 1428 1 ATRN_MOUSE Q9w460 mus musculus
42 74.5 6.8 307 1 TR41_HUMAN P59336 homo sapien
43 74.5 6.8 307 1 TR59_HUMAN P59550 homo sapien
44 74.5 6.8 348 1 RNPV_VIBPA Q87ax1 vibrio para
45 74.5 6.8 379 1 MCP_CAVPO P70105 cavia porce

```

```
DR InterPro; IPR001709; FPM_cyt_redctase.
DR InterPro; IPR004030; NO synthase.
DR InterPro; IPR001433; Oxid FAD/NAD(P).
DR Pfam; PF00667; FAD binding_1; 1.
DR Pfam; PF00258; flavodoxin_1; 1.
DR Pfam; PF00175; NAD binding_1; 2.
DR Pfam; PF02898; NO synthase; 1.
DR PRINTS; PR00369; FLAVODOXIN.
DR PRINTS; PR00371; FPNCR.
DR PROSITE; PS0902; FLAVODOXIN_LIKE; 1.
DR PROSITE; PS60001; NOS; 1.
KW Oxidoreductase; NADP; FAD; FPM; Calmodulin-binding; Heme; Repeat;
KW Alternative splicing.
FT DOMAIN 427 610
FT METAL 82 82
FT DOMAIN 397 417
FT NP_BIND 556 587
FT NP_BIND 697 708
FT NP_BIND 836 846
FT NP_BIND 911 929
FT NP_BIND 1089 1104
FT DOMAIN 934 1010
FT [TM]-P-S-C.
FT VARSPLIC 276 309
FT Missing (in isoform Short).
FT /FTID=VSP_003584.
SQ SEQUENCE 1153 AA; 129085 MW; 101B77D02B66B109 CRC64;
Query Match 8.4%; Score 92.5; DB 1; Length 1153;
Best Local Similarity 21.1%; Pred. No. 1.7;
Matches 64; Conservative 28; Mismatches 76; Indels 135; Gaps 13;
QY 21 AENAPKVLRLSITLALGDKAYADTNEEYLFA-MVAFSMKRVNPRB---ATET----- 69
Db 689 AHNA---TDLKAPGDHVAIPANSPEIVDAILRLDTSKGPSDQVVKTEISTQLGTN 744
QY 70 ----SHVLLCNTQVSEFVVDTSKNTLPAVEVQSALRNKNRI-----NNAPP--- 117
Db 745 DTWRSHLPCTRTAFSLFDVTPPSQBILOVLATQASSMDKHLQLASNSEAYEKW 804
QY 118 ---LNDQTLF-----LKIPSTL-----
Db 805 RLDSLPNLEILDEPPLKIPSLLLTLQLPLQPRYVSISSQKNPNVEHATIAVVRK 864
QY 133 -----AP-----PMDSPVPIIIFGVIFCIIV 156
Db 865 TDGQDGPVHEGVCSWLNRSPICTVPCPLRSAPHPLPEDPSLPIMIGPG----- 916
QY 157 ATALLILSGI-----WQRRRNKPSSEVDDAEDKEN-MITIENGIPSDPLDMKGILM 209
Db 917 -----SGIAPFRSFWOQL-----GEIENTWPSCENTMLSCETTIPSCENSPSCENT 964
QY 210 MPS 212
Db 965 MPS 967
RESULT 2
SYR_SULTO
ID SYR_SULTO STANDARD; PRT; 623 AA.
AC Q97IX1.
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Arginyl-tRNA synthetase (EC 6.1.1.19) (Arginine--tRNA ligase) (ArgRS).
GN ARGS OR ST1258.
OS Sulfolobus tokodaii.
OC Archaea; Crenarchaeota; Thermoprotei; Sulfolobales; Sulfolobaceae;
OC Sulfolobus.
OX NCBI_TaxID=111955;
RN [1]
RC SEQUENCE FROM N.A.
RP STRAIN=JCM 10545 / 7;
RX MEDLINE=21456156; PubMed=11572479;
```

```
RA Kawarabayasi Y., Hino Y., Horikawa H., Jin-no K., Takahashi M.,
RA Sekine M., Baba S.-I., Ankai A., Kosugi H., Hosoyama A., Fukui S.,
RA Nagai Y., Nishijima K., Otsuka R., Nakazawa H., Takamiya M., Kato Y.,
RA Yoshizawa T., Tanaka T., Kudoh Y., Yamazaki J., Kushida N., Oguchi A.,
RA Aoki K.-I., Masuda S., Yanagii M., Nishimura M., Yamagishi A.,
RA Oshima T., Kikuchi H.;
RT *Complete genome sequence of an aerobic thermoacidophilic
RT Crenarchaeon, Sulfolobus tokodaii strain7.;
RL DNA Res. 8:123-140(2001).
CC -1- CATALYTIC ACTIVITY: ATP + L-arginine + tRNA(Arg) = AMP +
CC diphosphate + L-arginyl-tRNA(Arg).
CC -1- SUBCELLULAR LOCATION: Cytoplasmic.
CC -1- SIMILARITY: Belongs to class-I aminoacyl-tRNA synthetase family.
CC This SWISS-PROT entry is copyrighted. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
DR EMBL; AF000985; BAB66299.1; -.
DR HAMAP; MP_00123; -.
DR InterPro; IPR001278; Arg_tRNA-synt_1c.
DR InterPro; IPR008909; tRNA-synt_1d_C.
DR InterPro; IPR001412; tRNA-synt_1.
DR Pfam; PF00750; tRNA-synt_1d; 1.
DR Pfam; PF05746; tRNA-synt_1d_C; 1.
DR PRINTS; PR01038; TRNASYNTHARG.
DR TIGRPFAM; TIGR00456; argS; 1.
DR PROSITE; PS00178; AA tRNA Ligase I; FALSE NEG.
KW Aminoacyl-tRNA synthetase; Protein biosynthesis; Ligase; ATP-binding;
KW Complete proteome.
FT SITE 116 126 "HIGH" REGION.
SQ SEQUENCE 623 AA; 71692 MW; A24645D0996B038B CRC64;
Query Match 8.3%; Score 91; DB 1; Length 623;
Best Local Similarity 22.1%; Pred. No. 1.1;
Matches 45; Conservative 31; Mismatches 44; Indels 84; Gaps 12;
QY 45 NEEYLFKAWA-----FSMRKVPNREATEISHVLLCNVQVSVFWVVDPSKNHTLPAV 99
Db 82 NESEFLKLIPTFPDSDYGIKIQKQPVVVEH-----TSANPIHLHVG 125
QY 100 EQVQSAI-----RMKNR---INNAFFLNDQ-----TLEPLKI--PSTLAPPMDPSVP 141
Db 126 HLREAILGDVIAEMLKARGHEVNTFYNDAGQVAILTLGYLLGEPN---PPRDKID 182
QY 142 IWIIFGVIFCI--IIVAI-----ALLILSGIWRRRRNKBP 176
Db 183 QWI---GVYAITNIIIEINQLKGLSSNSEEYRQIKSLDELISLAG---KRRKYP 235
QY 177 -----SEVDDAEDKENMI 190
Db 236 EIFDKLADSEIKENIEKIQNI 259
RESULT 3
CAD8_MOUSE
ID CAD8_MOUSE STANDARD; PRT; 799 AA.
AC P97291;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
GN Cadherin-8 precursor.
GN CDH8.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RC SEQUENCE FROM N.A.
RP
```

```
RC STRAIN-Swiss Webster / NIH;
RX MEDLINE=97174321; PubMed=9022055;
RA Korematsu K., Redies C.;
RT "Restricted expression of cadherin-8 in segmental and functional
RT subdivisions of the embryonic mouse brain.";
RL Dev. Dyn. 208:178-189 (1997).
CC -!- FUNCTION: Cadherins are calcium dependent cell adhesion proteins.
CC They preferentially interact with themselves in a homophilic
CC manner in connecting cells; cadherins may thus contribute to the
CC sorting of heterogeneous cell types.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- SIMILARITY: Contains 5 cadherin domains.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; X95600; CAA64857.1; -.
CC DR HSSP; P15116; INCG.
CC DR MGD; MGI:107434; Cdh8.
CC DR InterPro; IPR002126; Cadherin.
CC DR InterPro; IPR000233; Cadherin_C_term.
CC DR Pfam; PF00028; cadherin; 5.
CC DR Pfam; PF01049; Cadherin_C_term; 1.
CC DR PRINTS; PR00205; CADHERIN.
CC DR SMART; SM00112; CA; 5.
CC DR PROSITE; PS00232; CADHERIN_1; 3.
CC DR PROSITE; PS00268; CADHERIN_2; 5.
CC DR Cell adhesion; Glycoprotein; Transmembrane; Calcium-binding; Repeat;
KW Signal.
FT SIGNAL 1 29 POTENTIAL.
FT PROPEP 30 61 POTENTIAL.
FT CHAIN 62 799 CADHERIN-8.
FT DOMAIN 62 621 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 622 642 POTENTIAL.
FT DOMAIN 643 799 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 62 167 CADHERIN 1.
FT DOMAIN 168 276 CADHERIN 2.
FT DOMAIN 277 391 CADHERIN 3.
FT DOMAIN 392 494 CADHERIN 4.
FT DOMAIN 495 616 CADHERIN 5.
FT CARBOHYD 188 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 463 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 473 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 544 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 799 AA; 88200 MW; 0E35FEAD563C7F76 CRC64;

Query Match 8.2%; Score 90; DB 1; Length 799;
Best Local Similarity 21.4%; Pred. No. 1.8;
Matches 52; Conservative 34; Mismatches 91; Indels 66; Gaps 11;

QY 13 HAELOCAGNAKFKVLSIRTAIGKAVADT-----NEEYLFAMVAFSRRKVTN 63
DB 432 HTDLERQFNNDGKTLATPLDRELSVHNHTIATEIRHNSQISRPVPAIKVLDV-N 490
QY 64 REATEIS---HVLIC-----NVTORVSFWFVVTPPSKNH-----TLPAVEQSAIRMNK 109
DB 491 DNAPFASFEYAEFLCENKPGQVIQTVSA-MDKDPPKNGHPFLYLLPEMNNPNTICK 549
QY 110 NRINNAFL-----NDQTLPEKIPSTILA-----PPMDPSVPDIWIIIFG----- 148
DB 550 NEDNSLSILAKHNGFRQKQVYLLPIVSDSGNPPLSSTSTLTIRVCGCSNDGVQSCN 609
QY 149 -----VIFCIIVAIALLISGHWQRRRKNKPSVDDAEDKCNMIT 191
DB 610 VEAYVLPGLSGMALIAILACIILLVIVLWF--VTLRRHKN-EPLINKDDREVNIR 666
QY 192 IEN 194
::
```

```
Db 667 YDD 669

RESULT 4
CAD8 RAT
ID CAD8 RAT STANDARD; PRT; 799 AA.
AC O54800; O54801;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DB Cadherin-8 precursor.
GN CDH8.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutelestomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.
RC TISSUE=Brain;
RX MEDLINE=98190518; PubMed=9521872;
RA Kido M., Obata S., Tanihara H., Rochelle J.M., Seldin M.F.,
RA Taketani S., Suzuki S.T.;
RL "Molecular properties and chromosomal location of cadherin-8.";
RL Genomics 48:186-194(1998).
CC -!- FUNCTION: Cadherins are calcium dependent cell adhesion proteins.
CC They preferentially interact with themselves in a homophilic
CC manner in connecting cells; cadherins may thus contribute to the
CC sorting of heterogeneous cell types.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- ALTERNATIVE PRODUCTS:
CC Event-Alternative splicing; Named isoforms=2;
CC Name=1;
CC IsoId=O54800-1; Sequence=Displayed;
CC Name=2;
CC IsoId=O54800-2; Sequence=VSP_000638, VSP_000639;
CC -!- SIMILARITY: Contains 5 cadherin domains.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; AB010436; BAA24452.1; -.
CC DR EMBL; AB010437; BAA24453.1; -.
CC DR HSSP; P15116; INCG.
CC DR InterPro; IPR002126; Cadherin.
CC DR InterPro; IPR000233; Cadherin_C_term.
CC DR Pfam; PF00028; cadherin; 5.
CC DR Pfam; PF01049; Cadherin_C_term; 1.
CC DR PRINTS; PR00205; CADHERIN.
CC DR SMART; SM00112; CA; 5.
CC DR PROSITE; PS00232; CADHERIN_1; 3.
CC DR PROSITE; PS00268; CADHERIN_2; 5.
CC DR Cell adhesion; Glycoprotein; Transmembrane; Calcium-binding; Repeat;
KW Signal; Alternative splicing.
FT SIGNAL 1 29 POTENTIAL.
FT PROPEP 30 61 POTENTIAL.
FT CHAIN 62 799 CADHERIN-8.
FT DOMAIN 62 621 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 622 642 POTENTIAL.
FT DOMAIN 643 799 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 62 167 CADHERIN 1.
FT DOMAIN 168 276 CADHERIN 2.
FT DOMAIN 277 391 CADHERIN 3.
FT DOMAIN 392 494 CADHERIN 4.
FT DOMAIN 495 616 CADHERIN 5.
FT CARBOHYD 188 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 463 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 473 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 544 N-LINKED (GLCNAC. .) (POTENTIAL).
```

```
FT VARSPLIC 514 532 IQTVSAMDKDDPKNGHFFL -> NISMLLILNMFVYVNCFLV
FT N (in isoform 2).
FT /FTid=VSP 000638.
FT VARSPLIC 533 799 Missing (in isoform 2).
FT /FTid=VSP 000639.
SQ SEQUENCE 799 AA; 88332 MW; F01D145R80966CE6 CRC64;

Query Match 8.2%; Score 90; DB 1; Length 799;
Best Local Similarity 21.4%; Pred. No. 1.8;
Matches 52; Conservative 34; Mismatches 91; Indels 66; Gaps 11;

QY 13 HAELOCQGAENAFKVLRSIRTAGDKAYADWT-----NEEYLFKAMVAFSRMKVFN 63
DB 432 HTDLERQFQINADGKITATPLDLRLSVNHNISIIATIRNHSQISRVFPAIKVLDV-N 490

QY 64 REATELS---HVLCC-----NTQVSEFVFTDPSKNH-----TLPVAVESQAIRMNK 109
DB 491 DNAPEFASVEAFCEKNGKGGVQIVTSA-MDKDDPKNGHFFLYSLPENVNPNFTIKK 549

QY 110 NRINNAFFL-----NDQLEFLKIPSTLA-----PMDPSVPIWIIIFG----- 148
DB 550 NEDNSLSILAKHNGFNROQEVYLLPVIDSDGNPLSTSTLTIRVCGCSNDGVVQSCN 609

QY 149 -----VFICIIIVAIALLLSGIWQRKKRKEPSEVDADAEDKCNMT 191
DB 610 VEPYVLPGLSMGALITAILLIVVLPF--VTIRRHKN-EPLIKDDVEDVRENIIR 666

QY 192 IEN 194
DB 667 YDD 669

RESULT 5
ITAB HUMAN STANDARD; PRT; 1025 AA.
ID ITAB HUMAN STANDARD; PRT; 1025 AA.
AC P53708;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Integrin alpha-8.
GN ITGA8.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=95286701; PubMed=7768999;
RA Schnapp L.M., Breuss J.M., Ramos D.M., Sheppard D., Pytela R.;
RT "Sequence and tissue distribution of the human integrin alpha 8
RT subunit: a beta 1-associated alpha subunit expressed in smooth muscle
RT cells."
RL J. Cell Sci. 108:537-544(1995).
CC -!- FUNCTION: INTEGRIN ALPHA-8/BETA-1 IS A RECEPTOR FOR FIBRONECTIN
CC AND CYTOTACTIN. IT RECOGNIZES THE SEQUENCE R-G-D IN ITS LIGANDS.
CC -!- SUBUNIT: HETERODIMER OF AN ALPHA AND A BETA SUBUNIT. THE ALPHA
CC SUBUNIT IS COMPOSED OF AN HEAVY AND A LIGHT CHAIN LINKED BY A
CC DISULFIDE BOND. ALPHA-8 ASSOCIATES WITH BETA-1.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- TISSUE SPECIFICITY: PREDOMINANTLY EXPRESSED IN SMOOTH MUSCLE AND
CC SMOOTH MUSCLE-LIKE CONTRACTILE CELLS.
CC -!- SIMILARITY: Belongs to the integrin alpha chain family.
CC -!- SIMILARITY: Contains 7 FG-GAP repeats.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; L36531; AAA93514.1; --
```

```
DR HSP; P06756; 1JV2.
DR Genew; HGNC:6144; ITGA8.
DR MIM; 604063; -.
DR GO; GO:0008305; C:integrin complex; TAS.
DR GO; GO:0004895; P:cell adhesion receptor activity; NAS.
DR GO; GO:0016337; P:cell-cell adhesion; NAS.
DR GO; GO:0007160; P:cell-matrix adhesion; NAS.
DR InterPro; IPR000413; Integrin_alpha.
DR Pfam; PF01839; FG-GAP; 4.
DR PRINTS; PR01185; Integrin_A; 1.
DR SMART; SM00191; Int_alpha; 6.
DR PROSITE; PS00242; INTEGRIN_ALPHA; 1.
KW Integrin; Cell adhesion; Receptor; Glycoprotein; Transmembrane;
KW Repeat; Calcium.
FT CHAIN 1 868 INTEGRIN ALPHA-8 HEAVY CHAIN (POTENTIAL).
FT CHAIN 869 1025 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 1 974 POTENTIAL.
FT TRANSMEM 975 995 POTENTIAL.
FT DOMAIN 996 1025 CYTOPLASMIC (POTENTIAL).
FT REPEAT 95 160 FG-GAP 1.
FT REPEAT 161 225 FG-GAP 2.
FT REPEAT 226 279 FG-GAP 3.
FT REPEAT 280 345 FG-GAP 4.
FT REPEAT 346 405 FG-GAP 5.
FT REPEAT 409 463 FG-GAP 6.
FT CA_BIND 291 299 FG-GAP 7.
FT CA_BIND 357 365 POTENTIAL.
FT CA_BIND 421 429 POTENTIAL.
FT SITE 417 419 CELL ATTACHMENT SITE (POTENTIAL).
FT DISULFID 58 68 BY SIMILARITY.
FT DISULFID 112 133 BY SIMILARITY.
FT DISULFID 149 162 BY SIMILARITY.
FT DISULFID 469 480 BY SIMILARITY.
FT DISULFID 486 542 BY SIMILARITY.
FT DISULFID 603 609 BY SIMILARITY.
FT DISULFID 675 688 BY SIMILARITY.
FT DISULFID 829 886 INTERCHAIN (BY SIMILARITY).
FT DISULFID 891 896 BY SIMILARITY.
FT CARBOHYD 43 43 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 84 84 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 139 139 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 201 201 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 273 273 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 466 466 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 563 563 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 567 567 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 681 681 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 699 699 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 715 715 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 742 742 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 858 858 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 885 885 N-LINKED (GLCNAC. ) (POTENTIAL).
FT CARBOHYD 967 967 N-LINKED (GLCNAC. ) (POTENTIAL).
SQ SEQUENCE 1025 AA; 113612 MW; 58B86B2C00CF7B93 CRC64;

Query Match 8.1%; Score 89.5; DB 1; Length 1025;
Best Local Similarity 20.2%; Pred. No. 2.8;
Matches 34; Conservative 35; Mismatches 40; Indels 59; Gaps 8;

QY 20 GAENAFKVLRSIRTAGDKAYADWTNEEYLFKAMVAFSRMKVFNREATEISHVLLCNVTQ 79
DB 903 GGESAV---LKVRSRLWAHTFLQRKNDPYALASLVSFVKCKMPYD----- 945

QY 80 RVSEFWVVDPSKNHTLP--AVEVQSAIRMNKNRINNAPFLNDQLEFLKIPSTLAPMD 137
DB 946 -----QPAK---LPEGSIAKTSV-----INAT--PNVS 969

QY 138 PSVPIWIIIFGVFCIIIVAIALLII--SGIWRERKNKEPSEVDAD 183
DB 970 PSIPLWVIIILAILGLVLAITLALWKCGFFDRARPPQB--DMTDR 1015
```


RX MEDLINE=90038499; PubMed=2681416;
 RA Zhou D.F.H., Ding J.F., Picker L.J., Bargatzke R.P., Butcher E.C.,
 RA Goedel D.V.
 RT "Molecular cloning and expression of Pgp-1. The mouse homolog of the
 RT human H-CAM (Hermes) lymphocyte homing receptor.";
 RA J. Immunol. 143:3390-3395(1989).
 RN [3]
 RP SEQUENCE FROM N.A. (ISOFORM 13).
 RX MEDLINE=90046829; PubMed=2682651;
 RA Nottenburg C., Rees G., St John T.,
 RT "Isolation of mouse CD44 cDNA: structural features are distinct from
 RT the primate cDNA.";
 RA Proc. Natl. Acad. Sci. U.S.A. 86:8521-8525(1989).
 RN [4]
 RP SEQUENCE FROM N.A. (ISOFORM 1).
 RX MEDLINE=20318634; PubMed=10859330;
 RA Wittig B.M., Johanson B., Zoeller M., Schwaerzler C., Guentert U.,
 RT "Abrogation of experimental colitis correlates with increased
 RT apoptosis in mice deficient for CD44 variant exon 7 (CD44v7).";
 RA J. Exp. Med. 191:2053-2064(2000).
 RN [5]
 RP SEQUENCE FROM N.A. (ISOFORM 13).
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altshuler S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.P., Jordan K., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diachenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Scapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.B., Hulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Ketterman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smilg D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences.";
 RA Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [6]
 RP SEQUENCE FROM N.A. (ISOFORM 13).
 RX STRAIN=C57BL/6J; TISSUE=Embryo;
 RA MEDLINE=22354683; PubMed=12466851;
 RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
 RA Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
 RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
 RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
 RA Schriml L.M., Knapin A., Matsuda H., Batalov S., Beisel K.W.,
 RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
 RA Dalla E., Dragani T.A., Fletcher C.P., Forrest A., Frazer K.S.,
 RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
 RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
 RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
 RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
 RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
 RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
 RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
 RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
 RA Sandelin A., Schneider C., Sempile C.A., Setou M., Shimada K.,
 RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
 RA Verardo R., Wagner L., Wahlstedt C., Wang Y., Watanabe Y., Wells C.,
 RA Wilming L.G., Wyshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
 RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
 RA Hirozane-Kishikawa T., Kono H., Nakamura M., Sakazume N., Sato K.,
 RA Shiraki T., Waki K., Kawai K., Aizawa K., Arakawa T., Fukuda C.,
 RA Hara A., Hashizume W., Inotani K., Ishii Y., Itoh M., Kagawa I.,
 RA Miyazaki A., Sakai K., Sasai K., Shibata K., Shinagawa A.,
 RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
 RA Birney E., Hayashizaki Y.

RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs.";
 RA Nature 420:563-573(2002).
 RN [7]
 RP SEQUENCE OF 8-778 FROM N.A. (ISOFORM 13).
 RX MEDLINE=90094420; PubMed=2403559;
 RA Wolfe B.J., Gause W.C., Pelfrey C.M., Holland S.M., Steinberg A.D.,
 RA August J.T.,
 RT "The cDNA sequence of mouse Pgp-1 and homology to human CD44 cell
 RT surface antigen and proteoglycan core/link proteins.";
 RA J. Biol. Chem. 265:341-347(1990).
 RN [8]
 RP SEQUENCE OF 224-637 FROM N.A. (ISOFORMS 1; 2; 3; 4; 5; 6; 7 AND 8).
 RX STRAIN=CB;
 RA MEDLINE=93219085; PubMed=8464707;
 RA Toelig C., Hofmann M., Herrlich P., Ponta H.;
 RT "Splicing choice from ten variant exons establishes CD44
 RT variability.";
 RA Nucleic Acids Res. 21:1225-1229(1993).
 RN [9]
 RP SEQUENCE OF 224-637 FROM N.A. (ISOFORM 9).
 RX STRAIN=BALB/c;
 RA MEDLINE=93286043; PubMed=8509359;
 RA Screaton G.R., Bell M.V., Bell J.I., Jackson D.G.;
 RT "The identification of a new alternative exon with highly restricted
 RT tissue expression in transcripts encoding the mouse Pgp-1 (CD44)
 RT homing receptor. Comparison of all 10 variable exons between mouse,
 RT human, and rat.";
 RA J. Biol. Chem. 268:12235-12238(1993).
 RN [10]
 RP PARTIAL SEQUENCE FROM N.A. (ISOFORMS 10 AND 11).
 RX STRAIN=Swiss Webster;
 RA MEDLINE=96353396; PubMed=8702806;
 RA Yu Q., Toole B.P.;
 RT "A new alternatively spliced exon between v9 and v10 provides a
 RT molecular basis for synthesis of soluble CD44.";
 RA J. Biol. Chem. 271:20603-20607(1996).
 CC -1- FUNCTION: Main cell surface receptor for hyaluronate. Adhesion to
 CC mucosal high endothelial venule and to types I and VI collagen.
 CC Probably involved in matrix adhesion, lymphocyte activation and
 CC lymph node homing.
 CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms=13;
 CC Name=1;
 CC IsoId=PI5379-14; Sequence=Displayed;
 CC Name=2;
 CC IsoId=PI5379-7; Sequence=VSP_007329;
 CC Name=3;
 CC IsoId=PI5379-8; Sequence=VSP_007330;
 CC Name=4; Synonyms=M2;
 CC IsoId=PI5379-4; Sequence=VSP_007331;
 CC Name=5;
 CC IsoId=PI5379-9; Sequence=VSP_007332;
 CC Name=6; Synonyms=M3;
 CC IsoId=PI5379-5; Sequence=VSP_005326;
 CC Name=7; Synonyms=M4;
 CC IsoId=PI5379-6; Sequence=VSP_005327;
 CC Name=8;
 CC IsoId=PI5379-10; Sequence=VSP_007330, VSP_007334;
 CC Name=9;
 CC IsoId=PI5379-11; Sequence=VSP_007332, VSP_007335;
 CC Name=10;
 CC IsoId=PI5379-12; Sequence=VSP_007336, VSP_007337;
 CC Name=11;
 CC IsoId=PI5379-13; Sequence=VSP_007338, VSP_007339;
 CC Name=12; Synonyms=M1;
 CC IsoId=PI5379-3; Sequence=VSP_005328;
 CC Name=13; Synonyms=M0;
 CC IsoId=PI5379-2; Sequence=VSP_005329;
 CC -1- PTM: N-glycosylated (By similarity).
 CC -1- PTM: O-glycosylated; contains chondroitin sulfate glycans which
 CC can be more or less sulfated (By similarity).

CC -!- PTM: Phosphorylated; activation of PKC results in the
 CC dephosphorylation of Ser-742 (constitutive phosphorylation site),
 CC and the phosphorylation of Ser-708 (by similarity).
 CC -!- POLYMORPHISM: Two allelic forms of this glycoprotein, PGP-1.1 and
 CC PGP-1.2, have been reported. The expressed product is PGP-1.1 (ly-
 CC 24.1).
 CC -!- SIMILARITY: Contains 1 link domain.
 CC
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use by non-profit institutions as long as its content is in no way
 CC modified and this statement is not removed. Usage by and for commercial
 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 CC or send an email to license@isb-sib.ch).
 CC
 CC EMBL; X66084; CAA46882.1; -
 CC EMBL; X66083; CAA46882.1; -
 CC EMBL; X66082; CAA46881.1; -
 CC EMBL; X66081; CAA46880.1; -
 CC EMBL; M30555; AAA39922.1; -
 CC EMBL; M27129; AAA37406.1; -
 CC EMBL; M27130; AAA37407.1; -
 CC EMBL; AJ251594; CAB61888.1; -
 CC EMBL; BC005676; AAH05676.1; -
 CC EMBL; AK045226; BAC32269.1; -
 CC EMBL; J05163; AAA39923.1; -
 CC EMBL; X69724; CAA49380.1; -
 CC EMBL; L13611; AAA37145.1; -

Query Match 8.0%; Score 88; DB 1; Length 778;

Best Local Similarity 21.6%; Pred. No. 2.7; Mismatches 30; Indels 34; Gaps 3;

Matches 24; Conservative 23; Mismatches 30; Indels 34; Gaps 3;

Oy 128 IPSTLAPMDPSVPIWIIIFGVICIIIVAIALLILSGIWRRR-----171

Db 671 VTTTSGPWRPQIPFWLII---LALLALAILAVCIANSRRRCQKKLVINGNGTV 727

Oy 172 KNEKPSVDDAEDKCNMTIENGIPSD-----PLDMKGKI 207

Db 728 EDRKPSLNGEASKSQEMVHLVNKPSFETPDQCMFTADETRLNQSDVMKIGV 778

RESULT 8

ID CD44_CRIGR STANDARD; PRT; 362 AA.
 AC P20944;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE CD44 antigen precursor (Phagocytic glycoprotein I) (PGP-1) (HUTCH-I)
 DE (Extracellular matrix receptor-III) (ECMR-III) (GP90 lymphocyte
 DE homing/adhesion receptor) (Hermes antigen) (Hyaluronate receptor).
 GN CD44.
 OS Cricetus griseus (Chinese hamster)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
 OC Cricetulus.
 OC NCBI_TaxID=10029;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=90304889; PubMed=1694723;
 RA Aruffo A., Stamenkovic I., Melnick M., Underhill C.B., Seed B.;
 RT "CD44 is the principal cell surface receptor for hyaluronate.";
 RL Cell 61:1303-1313(1990).
 CC -!- FUNCTION: Main cell surface receptor for hyaluronate. Adhesion to
 CC mucosal high endothelial venule and to types I and VI collagen.
 CC Probably involved in matrix adhesion, lymphocyte activation and
 CC lymph node homing.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- INDUCTION: By EBV.
 CC -!- PTM: Extensively modified including N- and O-linked glycosylation,
 CC addition of the glycosaminoglycan chondroitin sulfate, of sulfate,

CC of phosphate to cytoplasmic domain serine residues.
 CC -!- SIMILARITY: Contains 1 link domain.
 CC
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use by non-profit institutions as long as its content is in no way
 CC modified and this statement is not removed. Usage by and for commercial
 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 CC or send an email to license@isb-sib.ch).
 CC
 CC EMBL; M33827; AAA36967.1; -
 CC EMBL; A35616; A35616.
 CC HSP; P98066; ITSG.
 CC InterPro; IPR001231; CD44_antigen.
 CC InterPro; IPR000538; Link.
 CC Pfam; PF00193; Xlink; 1.
 CC PRINTS; PR00658; CD44.
 CC PRINTS; PR01265; LINKMODULE.
 CC ProDom; PD000918; Link; 1.
 CC SMART; SM00445; Link; 1.
 CC PROSITE; PS01241; Link; 1.
 CC Cell adhesion; Transmembrane; Glycoprotein; Phosphorylation; Receptor;
 CC Proteoglycan; Signal; Alternative splicing;
 CC Pyrrrolidone carboxylic acid.
 CC SIGNAL 1 22 BY SIMILARITY.
 CC CHAIN 23 362
 CC DOMAIN 23 269
 CC TRANSMEM 270 290
 CC DOMAIN 291 362
 CC DOMAIN 50 121
 CC DOMAIN 152 160
 CC DOMAIN 226 269
 CC MOD_RES 23 23
 CC DISULFID 55 120
 CC DISULFID 79 99
 CC MOD_RES 292 292
 CC MOD_RES 326 326
 CC CARBOHYD 27 27
 CC CARBOHYD 59 59
 CC CARBOHYD 102 102
 CC CARBOHYD 112 112
 CC CARBOHYD 122 122
 CC CARBOHYD 174 174
 CC CARBOHYD 256 256
 CC SEQUENCE 362 AA; 39775 MW; E89EB4349EEC948 CRC64;

Query Match 7.9%; Score 87; DB 1; Length 362;

Best Local Similarity 23.9%; Pred. No. 1.4;

Matches 26; Conservative 20; Mismatches 29; Indels 34; Gaps 3;

Oy 130 STLAPMDPSVPIWIIIFGVICIIIVAIALLILSGIWRRR-----KN 173

Db 257 STSPGGKPRVPEWLI---VLALLALAILAVCIANSRRRCQKKLVINGNGKVED 313

Oy 174 KEPSEVDDAEDKCNMTIENGIPSD-----LDMKGKI 207

Db 314 RKPSELNGEASKSQEMVHLVNKPSFETPDQCMFTADETRLNQSDVMKIGV 362

RESULT 9

CD44_MESAU

ID CD44_MESAU STANDARD; PRT; 431 AA.

AC Q60522; Q60523;

DT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 15-MAR-2004 (Rel. 43, Last annotation update)

DE CD44 antigen precursor (Phagocytic glycoprotein I) (PGP-1) (HUTCH-I)

DE (Extracellular matrix receptor-III) (ECMR-III) (GP90 lymphocyte

DE homing/adhesion receptor) (Hermes antigen) (Hyaluronate receptor)

DE

DE (Heparan sulfate proteoglycan) (HAM1 antigen).
GN CD44.
OS Mesocricetus auratus (Golden hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
OC Mesocricetus.
OX NCBI_TaxID=10036;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
RC STRAIN=LVG; TISSUE=Alveolar macrophage;
RA Paulauskis J.D., Kobzik L., Gebzik C., Katler M., Godleski J.J.;
RL Submitted (JUN-1995) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Main cell surface receptor for hyaluronate. Adhesion to
CC mucosal high endothelial venule and to types I and VI collagen.
CC Probably involved in matrix adhesion, lymphocyte activation and
CC lymph node homing.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Comment=Additional isoforms seem to exist;
CC Name=1;
CC IsoId=Q60522-1; Sequence=Displayed;
CC Name=2;
CC IsoId=Q60522-2; Sequence=VSP_005322;
CC -!- PTM: N-glycosylated (By similarity).
CC -!- PTM: O-glycosylated; contains chondroitin sulfate glycans which
CC can be more or less sulfated (By similarity).
CC -!- PTM: Phosphorylated; activation of PKC results in the
CC dephosphorylation of Ser-395 (constitutive phosphorylation site),
CC and the phosphorylation of Ser-361 (By similarity).
CC -!- SIMILARITY: Contains 1 link domain.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).
CC
CC EMBL; U10880; AAC13767.1; -;
CC EMBL; U10881; AAA19316.1; -;
CC HSP; P98066; ITSG.
CC InterPro; IPR001211; CD44 antigen.
CC InterPro; IPR000538; Link.
CC Pfam; PF00193; Xlink; 1.
CC PRINTS; PR00658; CD44.
CC PRINTS; PR01265; LINKMODULE.
CC ProDom; PD000918; Link; 1.
CC SMART; SM00445; LINK; 1.
CC PROSITE; PS01241; LINK; 1.
CC Cell adhesion; Transmembrane; Glycoprotein; Phosphorylation; Receptor;
KW Proteoglycan; Signal; Alternative splicing;
KW Pyrrolidone carboxylic acid.
FT SIGNAL 1 22
FT CHAIN 23 431
FT DOMAIN 23 338
FT CD44 ANTIGEN (POTENTIAL).
FT EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 339 359
FT POTENTIAL.
FT DOMAIN 360 431
FT CYTOPLASMIC (POTENTIAL).
FT DOMAIN 50 121
FT LINK.
FT DOMAIN 152 160
FT ARG/LYS-RICH (BASIC).
FT DOMAIN 226 338
FT STEM.
FT MOD_RES 23 23
FT PYRROLIDONE CARBOXYLIC ACID (BY
FT SIMILARITY).
FT DISULFID 55 120
FT BY SIMILARITY.
FT DISULFID 79 99
FT BY SIMILARITY.
FT MOD_RES 361 361
FT PHOSPHORYLATION (BY PKC) (PARTIAL) (BY
FT SIMILARITY).
FT MOD_RES 395 395
FT PHOSPHORYLATION (PARTIAL) (BY
FT SIMILARITY).
FT CARBOHYD 27 27
FT N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 59 59
FT N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 102 102
FT N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 112 112 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 122 122 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 174 174 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 256 256 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 325 325 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 222 291 TRSGGKGRRGGGLPKDATTSLBGYTHYPETMENGTLTPV
FT isoform 2).
FT FT
FT FT
FT FT
SQ SEQUENCE 431 AA; 46807 MM; 4300262E0C6BEA6A CRC64;
/FTID=VSP_005322.
Query Match 7.8%; Score 86; DB 1; Length 431;
Best Local Similarity 22.0%; Pred. No. 2.1;
Matches 24; Conservative 22; Mismatches 29; Indels 34; Gaps 3;
QY 130 STLAPPMPDPSVPIIIFGVFCIIIVAIALLILSGIMQRR-----KN 173
DB 326 TTSRPGKQIPWELI---VLASLLALALILAVIANSRRRCQKKLVINSNGKVED 382
QY 174 KPSVEVDDAEDKCNMITIENGIPSDP-----LDMKGGI 207
DB 383 RKPSELNGEASKQEMVHLVNKPSPTPDQFMTADETRNLQNVDMKIGV 431

RESULT 10
CD44_RAT
ID CD44_RAT STANDARD; PRT; 503 AA.
AC P26051; Q99021;
DT 01-MAY-1992 (Rel. 22, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE CD44 antigen precursor (phagocytic glycoprotein 1) (PGP-1) (HUTCH-1)
DE (extracellular matrix receptor-III) (ECMR-III) (GP90 lymphocyte
DE homing/adhesion receptor) (Hermes antigen) (Hyaluronate receptor)
DE (LY-24).
GN CD44.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=101116;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
RC STRAIN=BDIX; TISSUE=Pancreas;
RX MEDLINE=91191552; PubMed=1707342;
RA Gunther U., Hofmann M., Rudy W., Reber S., Zoeller M.,
RA Hausmann I., Matzku S., Wenzel A., Ponta H., Herrlich P.;
RT "A new variant of glycoprotein CD44 confers metastatic potential to
RT rat carcinoma cells.";
RL Cell 65:13-24 (1991).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RA Stevens J.W., Midura R.J.;
RL Submitted (JAN-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Main cell surface receptor for hyaluronate. Adhesion to
CC mucosal high endothelial venule and to types I and VI collagen.
CC Probably involved in matrix adhesion, lymphocyte activation and
CC lymph node homing.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Comment=Additional isoforms seem to exist;
CC Name=2; Synonyms=Long, Meta-1;
CC IsoId=P26051-1; Sequence=Displayed;
CC Name=1; Synonyms=Short;
CC IsoId=P26051-2; Sequence=VSP_005330;
CC -!- PTM: N-glycosylated (By similarity).
CC -!- PTM: O-glycosylated; contains chondroitin sulfate glycans which
CC can be more or less sulfated (By similarity).
CC -!- PTM: Phosphorylated; activation of PKC results in the
CC dephosphorylation of Ser-467 (constitutive phosphorylation site),
CC and the phosphorylation of Ser-433 (By similarity).
CC -!- SIMILARITY: Contains 1 link domain.
CC

This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch)

EMBL; M61875; AA53532.1; -
 EMBL; M61874; AA53534.1; -
 EMBL; U52179; AA97915.1; -
 EMBL; U46957; AA92920.1; -
 PIR; B38745; B38745.
 HSP; P98066; 1TSG.
 InterPro; IPR001231; CD44_antigen.
 InterPro; IPR000538; Link.
 Pfam; PF00193; Xlink; 1.
 PRINTS; PR0658; CD44.
 PRINTS; PR01265; LINKMODULE.
 ProDom; PD000918; Link; 1.
 SMART; SM00445; Link; 1.
 PROSITE; PS01241; Link; 1.
 Cell adhesion; Transmembrane; Glycoprotein; Phosphorylation; Receptor;
 Proteoglycan; Signal; Alternative splicing;
 Pyridone carboxylic acid.
 SIGNAL 1 21
 CHAIN 22 503
 DOMAIN 22 410
 TRANSMEM 411 431
 POTENTIAL.
 CYTOPLASMIC (POTENTIAL).
 LINK 432 503
 ARG/LYS-RICH (BASIC).
 STEM. 154 162
 PYRROLIDONE CARBOXYLIC ACID (PROBABLE).
 BY SIMILARITY. 228 410
 DISULFID 56 122
 PHOSPHORYLATION (BY PKC) (PARTIAL) (BY
 SIMILARITY). 80 100
 PHOSPHORYLATION (PARTIAL) (BY
 SIMILARITY). 433 433
 MOD_RES 467 467
 MOD_RES 28 28
 CARBOHYD 60 60
 CARBOHYD 103 103
 CARBOHYD 114 114
 CARBOHYD 124 124
 CARBOHYD 266 266
 CARBOHYD 274 274
 CARBOHYD 306 306
 VARSPLIC 224 385
 IATPWVSAHTKQKQRTQWNPVHNSPEVLLQTTTRWDID
 RNSTSAGENTQKQPPQPPNNHYQDBEETHATSTWADP
 NSTTTERATQKRWFMQGNKPPPTSEDSHVTEGTWADP
 HNNHPSQRMTQSQEDVSWTFDPFPIGHPMQGHQGTESK
 -> SDGSSMDPRGCGFDTVTTHGSELA (in isoform
 1).
 /FTid=VSP_005330.
 R -> S (IN REF. 2).
 CONFLICT 74 74
 SEQUENCE 503 AA; 55945 MW; PB489D009BDAEE22 CRC64;

Query Match 7.8%; Score 86; DB 1; Length 503;
 Best Local Similarity 20.7%; Pred. No. 2.5;
 Matches 23; Conservative 24; Mismatches 30; Indels 34; Gaps 3;
 Qy 128 IPSTLAPMPDPSVPIWIIIFGVICIIIVAILLISGIWRRR-----PLDMKGGI 171
 Db 396 VTTTSGPARRPQIPEWLI---LASLLALAILAVCIANSRRRCQKKLVINGNGTV 452
 Qy 172 KNEKPSVDADKCNEMTIENGIPSD-----PLDMKGGI 207
 Db 453 EDRKPSBLNGASKQKQVHLVKNKEPTETPDQFMATDNRNLQSVDMKIGV 503

RESULT 11
 FLIP_BACSU

ID AC FLIP_BACSU STANDARD; PRT; 536 AA.
 DT P23447;
 DT 01-NOV-1991 (Rel. 20, Created)
 DT 01-MAR-1992 (Rel. 21, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Flagellar M-ring protein.
 GN FLIP OR BSM6210.
 OS Bacillus subtilis.
 OC Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
 OX NCBI_TaxID=1423;
 RN [1]
 RP SEQUENCE FROM N.A.
 EX MEDLINE=91285431; PubMed=1905567;
 RA Zuberi A.R., Ying C., Bischoff D.S., Ordal G.W.;
 RT "Gene-protein relationships in the flagellar hook-basal body complex
 RT of Bacillus subtilis: sequences of the figB, figC, figE and
 RT flp genes.";
 RL Gene 101:23-31 (1991).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=168;
 EX MEDLINE=98044033; PubMed=9384377;
 RA Kunst P., Ogasawara N., Moszer I., Albertini A.M., Alloni G.,
 RA Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borcher S.,
 RA Borriss R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S.,
 RA Brouillet S., Bruschi C.V., Caldwell B., Capuano V., Carter N.M.,
 RA Choi S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,
 RA Denizot F., Devine K.M., Dusterhoft A., Ehrlich S.D., Emerson P.T.,
 RA Entian K.D., Brington J., Fabret C., Ferrati E., Foulger D.,
 RA Fritz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N.,
 RA Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,
 RA Guiseppe G., Guy B.J., Haga K., Halech J., Harwood C.R., Henaut A.,
 RA Hilbert H., Holstappel S., Hosono S., Hulio M.F., Itaya M., Jones L.,
 RA Joris B., Karamata D., Kasahara Y., Klauber-Blandhard M., Klein C.,
 RA Kobayashi Y., Koetter P., Koningsstein G., Krogh S., Kumano M.,
 RA Kurita K., Lapidus A., Lardinois S., Lauber J., Lazarevic V.,
 RA Lee S.M., Levine A., Liu H., Masuda S., Manuel C., Medigue C.,
 RA Medina N., Mellado R.P., Mizuno M., Moestl D., Nakai S., Noback M.,
 RA Noone D., O'Reilly M., Ogawa K., Ogiwara A., Oudega B., Park S.H.,
 RA Parro V., Pohl T.M., Portetelle D., Porello S., Prescott A.M.,
 RA Presecan E., Pujic P., Purnelle B., Rapoport G., Rey M., Reynolds S.,
 RA Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadale Y.,
 RA Sato T., Scanlan E., Schleich S., Schroter R., Scoffone F.,
 RA Seliguchi J., Sekowska A., Seror S.J., Serror P., Shin B.S., Soldo B.,
 RA Sorokin A., Tacconi E., Takagi T., Takahashi H., Takenaru K.,
 RA Takeuchi M., Tanakoshi A., Tanaka T., Terpetra P., Tognoni A.,
 RA Tosato V., Uchiyama S., Vandenbol M., Vannier F., Vassarotti A.,
 RA Viari A., Wambutt R., Wedler B., Wedler H., Weitzenecker T.,
 RA Winters P., Wipat A., Yamamoto H., Yamane K., Yasumoto K., Yata K.,
 RA Yoshida K., Yoshikawa H.P., Zumstein E., Yoshikawa H., Danchin A.;
 RT "The complete genome sequence of the Gram-positive bacterium Bacillus
 RT subtilis.";
 RL Nature 390:249-256 (1997).
 RN [3]
 RP SEQUENCE OF 355-536 FROM N.A.
 RC STRAIN=168;
 EX MEDLINE=91258343; PubMed=1828465;
 RA Albertini A.M., Caramori T., Crabb W.D., Scoffone F., Galizzi A.;
 RT "The flia locus of Bacillus subtilis is part of a large operon coding
 RT for flagellar structures, motility functions, and an ATPase-like
 RT polypeptide";
 RL J. Bacteriol. 173:3573-3579 (1991).
 CC -!- FUNCTION: The M ring may be actively involved in energy
 CC transduction.
 CC -!- SUBUNIT: THE BASAL BODY CONSTITUTES A MAJOR PORTION OF THE
 CC FLAGELLAR ORGANELLE AND CONSISTS OF FOUR RINGS (L, P, S, AND M)
 CC MOUNTED ON A CENTRAL ROD. THE M RING IS INTEGRAL TO THE INNER
 CC MEMBRANE OF THE CELL AND MAY BE CONNECTED TO THE FLAGELLAR ROD
 CC VIA THE S RING. THE S (SUPRAMEMBRANE RING) LIES JUST DISTAL TO
 CC THE M RING. THE L AND P RINGS LIE IN THE OUTER MEMBRANE AND THE
 CC PERIPLASMIC SPACE, RESPECTIVELY.
 CC -!- SUBCELLULAR LOCATION: Cytoplasmic; membrane-associated.
 CC -!- SIMILARITY: Belongs to the flp family.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; M54965; -; NOT ANNOTATED_CDS.
DR EMBL; 299112; CAB13494.1; -.
DR EMBL; X56049; CAA39520.1; -.
DR PIR; JG0022; JG0022.
DR Subtilist; BG10240; flif.
DR InterPro; IPR000067; FlgMring FLIF.
DR InterPro; IPR006182; YscJ FLIF.
DR Pfam; PF01514; YscJ FLIF; 1.
DR PRINTS; PR01009; FLGMRINGFLIF.
DR TIGRFAMs; TIGR00206; flif; 1.
KW Flagellum; Membrane; Complete proteome.
SQ SEQUENCE 536 AA; 59300 MW; 21110D4C7CF1927A CRC64;

Query Match 7.7%; Score 84.5; DB 1; Length 536;
Best Local Similarity 19.9%; Pred. No. 3.7;
Matches 39; Conservative 36; Mismatches 68; Indels 53; Gaps 8;

QY 9 VTAHAELCPQAEAFKVLRSIRALGDYAWDTNSEYLFKAMVAEMKVPVREATE 68
Db 352 VNRHKEI-----AESPKYKVR-----DLGIQVWVEPPDKAKNTASLSTERODD 393
QY 69 ISHVLLCNVQTVSVFVWVPSKNTLPAVEQSAIRNKNRINNAFLNDQTLFLKI 128
Db 394 IQKIL-STVVRTS---LDKDETQNLSDADINNKIVSVQPFCKVNLDTNTEE--- 444
QY 129 PSTLAPPMDPSVPIW-IIFGVIFCIIVAIALLGSIWQRNRKNGPSEVDDAEKCE 187
Db 445 -----SSGIPLWAYIVGGVLAIIIVLIIMLI-----RKCKAQEDSEFEVEYE-- 487
QY 188 NMWITIENGIPSDPLM 203
Db 488 -----VPOEPINL 495

RESULT 12
PTPJ HUMAN
ID PTPJ_HUMAN STANDARD; PRT; 1337 AA.
AC 01-NOV-1997 (Rel. 35, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Protein-tyrosine phosphatase eta precursor (EC 3.1.3.48) (R-PTP-eta)
DE (HPTP eta) (Protein-tyrosine phosphatase receptor type J) (Density
DE enhanced phosphatase-1) (DEP-1) (CD148 antigen).
GN PTPRJ OR DEPI.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
[1]
RP SEQUENCE FROM N.A.
RX MEDLINE=95024024; PubMed=7937872;
RA Oestman A., Yang Q., Tonks N.K.;
RT "Expression of DRP-1, a receptor-like protein-tyrosine-phosphatase,
RT is enhanced with increasing cell density.";
RL Proc. Natl. Acad. Sci. U.S.A. 91:9680-9694 (1994).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=95086212; PubMed=7994032;
RA Honda H., Inazawa J., Nishida J., Yazaki Y., Hirai H.;
RT "Molecular cloning, characterization, and chromosomal localization of
RT a novel protein-tyrosine phosphatase, HPTP eta.";
RL Blood 84:4186-4194 (1994).
RN [3]

RP SEQUENCE OF 33-1337 FROM N.A., AND VARIANTS COLON CANCER CVS-214 AND
RP PRO-276.
RC TISSUE=Colon;
RX MEDLINE=22084388; PubMed=12089527;
RA RuiVenkamp C.A.L., van Wezel T., Zanon C., Stassen A.P.M., Vlcek C.,
RA Sakos T., Klous A.M., Tripodis N., Perrakis A., Boerrigter L.,
RA Groot P.C., Lindeman J., Mooi W.J., Meijer G.A., Scholten G.,
RA Dauwerse H., Paces V., van Zandwijk N., van Ommen G.J.B., Demant P.;
RT Ptpj is a candidate for the mouse colon-cancer susceptibility locus
RT Sccl and is frequently deleted in human cancers.";
RL Nat. Genet. 31:295-300 (2002).
CC -!- FUNCTION: May contribute to the mechanism of contact inhibition of
CC cell growth.
CC -!- CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O = protein
CC tyrosine + phosphate. Type I membrane protein.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- PTM: N- and O-glycosylated.
CC -!- DISEASE: Defects in PTPRJ are found in cancers of colon, lung, and
CC breast.
CC -!- SIMILARITY: Contains 1 protein-tyrosine phosphatase domain.
CC -!- SIMILARITY: Contains 5 fibronectin type III domains.
CC -!- DATABASE: NAME=PTP; NCBI=NCBI.nlm.nih.gov/prov/cd/cd148.htm".
CC WWW="http://www.ncbi.nlm.nih.gov/prov/cd/cd148.htm".
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; U10886; AAB36587.1; -.
DR EMBL; D37781; BAA07035.1; -.
DR EMBL; AF387844; AAM69432.1; JOINED.
DR EMBL; AF387823; AAM69432.1; JOINED.
DR EMBL; AF387824; AAM69432.1; JOINED.
DR EMBL; AF387825; AAM69432.1; JOINED.
DR EMBL; AF387826; AAM69432.1; JOINED.
DR EMBL; AF387827; AAM69432.1; JOINED.
DR EMBL; AF387828; AAM69432.1; JOINED.
DR EMBL; AF387829; AAM69432.1; JOINED.
DR EMBL; AF387830; AAM69432.1; JOINED.
DR EMBL; AF387831; AAM69432.1; JOINED.
DR EMBL; AF387832; AAM69432.1; JOINED.
DR EMBL; AF387833; AAM69432.1; JOINED.
DR EMBL; AF387834; AAM69432.1; JOINED.
DR EMBL; AF387835; AAM69432.1; JOINED.
DR EMBL; AF387836; AAM69432.1; JOINED.
DR EMBL; AF387837; AAM69432.1; JOINED.
DR EMBL; AF387838; AAM69432.1; JOINED.
DR EMBL; AF387839; AAM69432.1; JOINED.
DR EMBL; AF387840; AAM69432.1; JOINED.
DR EMBL; AF387841; AAM69432.1; JOINED.
DR EMBL; AF387842; AAM69432.1; JOINED.
DR EMBL; AF387843; AAM69432.1; JOINED.
DR PIR; I38670; I38670.
DR HSSP; P18052; 1YFO.
DR Genew; HGNC:9673; PTPRJ.
DR MIM; 600925; -.
DR GO; GO:0005887; C:integral to plasma membrane; TAS.
DR GO; GO:0005001; P:transmembrane receptor protein tyrosine pho. . . ; TAS.
DR GO; GO:0007267; P:cell-cell signaling; TAS.
DR GO; GO:0006470; P:protein amino acid dephosphorylation; TAS.
DR GO; GO:0007169; P:transmembrane receptor protein tyrosine kin. . . ; TAS.
DR InterPro; IPR008957; FN III-like.
DR InterPro; IPR003961; FN III.
DR InterPro; IPR00387; TYR phosphatase.
DR InterPro; IPR000242; Tyr_pp.
DR Pfam; PF00041; fn3; 6.
DR Pfam; PF0102; Y_phosphatase; 1.
DR PRINTS; PRO0700; PTPPHPTASE.
DR SMART; SM00060; FN3; 8.

```
Query Match      7.68; Score 83.5; DB 1; Length 1337;
Best Local Similarity 26.4%; Pred. No. 13;
Matches 24; Conservative 20; Mismatches 34; Indels 13; Gaps 4;

QY          108 NKNRNNAPFLNDQTLEFLKIPSTLAPPDPSPVIMIIIFGVFCIIIVAIALLILSG-- 165
              ||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Db           944 NKGLIDCA----ESYVSFSYSDAVSLPQDPGV-----ICGAVGCIFGALVIIVTGGPI 994
              ||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
QY          166 IWQRNRKNKEPSEV--DDAEDKCNEMITTEN 194
              ::|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
```

```

FT CA_BIND 377 385 POTENTIAL.
FT CA_BIND 441 439 POTENTIAL.
FT SITE 437 439 CELL ATTACHMENT SITE (POTENTIAL).
FT DISULFID 81 88 BY SIMILARITY.
FT DISULFID 132 153 BY SIMILARITY.
FT DISULFID 169 182 BY SIMILARITY.
FT DISULFID 489 500 BY SIMILARITY.
FT DISULFID 506 562 BY SIMILARITY.
FT DISULFID 623 629 BY SIMILARITY.
FT DISULFID 695 708 BY SIMILARITY.
FT DISULFID 849 905 INTERCHAIN (BY SIMILARITY).
FT DISULFID 910 915 BY SIMILARITY.
FT CARBOHYD 66 66 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 104 104 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 139 139 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 221 221 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 284 284 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 486 486 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 587 587 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 701 701 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 719 719 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 751 751 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 762 762 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 818 818 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 877 877 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 904 904 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 952 952 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 986 986 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 1044 AA, 116141 MW, 3D59A318B51320CE CRC64;

Query Match 7.5%; Score 82.5; DB 1; Length 1044;
Best Local Similarity 21.3%; Pred. No. 12;
Matches 38; Conservative 28; Mismatches 59; Indels 53; Gaps 8;

QY 17 COPG-AENAPKVRLSIRTAIGKAVADTNEBYLPKAWAPSKVRKVPNREATEISHVLIC 75
DQ 915 CNVQGLERCKSAALKIRSLWAETFLQRNDPTLSSNVSKVKNPYK----- 963
QY 76 NVTQVRFVFWVTDPSKHTLPVAVQSAIRKMKRNINAPFNQTLFLKIPSTLAPP 135
DQ 964 -----VQPAK---LP--EGSIAIRTS-----VWST--PN 986

QY 136 MDPSVPIMIIIFGVFCIIIVAILLIL--SGIWRERKKNKPESEVDDAEDCKENIT 191
DQ 987 VSFVPLWIIILAILMLGLLVLAFLTLALWKCGFFDRARPPQD--DMAUREQLTNNKTT 1042

RESULT 14
ITAH HUMAN
ID ITAH HUMAN STANDARD; PRT; 1189 AA.
AC Q9UKQ5; Q9UKQ1;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Integrin alpha-11 precursor.
GN ITG11.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN (1)
RP SEQUENCE FROM N.A.
RX TISSUE=Fetal heart, and Osteoblast;
RX MEDLINE=99417678; PubMed=10486209;
RA Lehnert K., Ni J., Leung S.M., Gough S.M., Yao W.P., Liu D.,
RA Wang S.-X., Morris C.M., Kissansen G.W.;
RT "Cloning, sequence analysis, and chromosomal localization of the novel
RL human integrin alpha11 subunit (ITG11).";
RN Genomics 60:179-187(1999).
RP SEQUENCE FROM N.A.
RP TISSUE=Fetal muscle, and Uterus;

```

```

RX MEDLINE=99395147; PubMed=10464311;
RA Velling T., Kueche-Gullberg M., Sejersten T., Gullberg D.;
RA "cDNA Cloning and Chromosomal Localization of Human alpha(11)
RT Integrin. A collagen-binding, i domain-containing, beta(1)-associated
RT integrin alpha-chain present in muscle tissues.";
RL J. Biol. Chem. 274:25735-25742(1999).
RN (3)
RP SEQUENCE OF 954-1188 FROM N.A.
RC TISSUE=Fibroblast;
RA Andreu N., Estivill X., Escarceller M., Sumoy L.;
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: INTEGRIN ALPHA-11/BETA-1 IS A RECEPTOR FOR COLLAGEN.
CC -!- SUBUNIT: HETERODIMER OF AN ALPHA AND A BETA SUBUNIT. ALPHA-11
CC -!- ASSOCIATES WITH BETA-1.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- TISSUE SPECIFICITY: ACCORDING REF.2 HIGHEST LEVELS IN UTERUS AND
CC HEART, INTERMEDIATE LEVELS IN SKELETAL MUSCLE AND INTERMEDIATE TO
CC LOW LEVELS IN PANCREAS, KIDNEY AND PLACENTA. ACCORDING REF.1 ALSO
CC FOUND IN BRAIN, COLON, LUNG, SMALL INTESTINE, STOMACH, TESTIS,
CC SALIVARY GLANDS, THYROID GLANDS AND PROSTATE. VERY LOW LEVELS IN
CC PERIPHERAL BLOOD LYMPHOCYTES, FETAL BRAIN AND FETAL LIVER.
CC -!- DEVELOPMENTAL STAGE: STRONGLY UP-REGULATED IN DIFFERENTIATING
CC FETAL MUSCLE CELLS (IN VITRO).
CC -!- DOMAIN: THE INTEGRIN I-DOMAIN (INSERT) IS A VWFA DOMAIN. INTEGRINS
CC WITH I-DOMAINS DO NOT UNDERGO PROTEASE CLEAVAGE.
CC -!- SIMILARITY: Belongs to the integrin alpha chain family.
CC -!- SIMILARITY: Contains 1 VWFA domain.
CC -!- SIMILARITY: Contains 7 FG-GAP repeats.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@sib-sib.ch).
CC
CC -----
CC EMBL; AF109681; RAP01258.1; --
CC EMBL; AF137378; AAD51919.2; --
CC EMBL; AL359064; CAB94392.1; --
CC HSSP; P17301; IAOX.
CC Genew; HGNC:6136; ITG11.
CC MIM; 604789; --
CC GO; GO:0008305; C:integrin complex; TAS.
CC GO; GO:0004899; F:cell adhesion receptor activity; TAS.
CC GO; GO:0005518; F:collagen binding; TAS.
CC GO; GO:0007160; P:cell-matrix adhesion; TAS.
CC GO; GO:0007517; P:muscle development; TAS.
CC InterPro; IPR000413; Integrin_alpha.
CC InterPro; IPR002035; VWFA.
CC Pfam; PF01839; FG-GAP; 3.
CC Pfam; PF00092; vwa; 1.
CC PRINTS; PR01185; INTEGRINA.
CC PRINTS; PR00453; VWFADOMAIN.
CC SMART; SM00191; Int_alpha; 5.
CC SMART; SM00327; VWFA_1.
CC PROSITE; PS00242; INTEGRIN_ALPHA; FALSE_NEG.
CC PROSITE; PS0234; VWFA; 1.
CC Integrin; Cell adhesion; Receptor; Glycoprotein; Transmembrane;
KW Signal; Repeat; Calcium; Magnesium; Polymorphism.
FT SIGNAL 1 22 POTENTIAL.
FT CHAIN 23 1189 INTEGRIN_ALPHA-11.
FT DOMAIN 23 1142 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 1143 1165 POTENTIAL.
FT DOMAIN 1166 1189 CYTOPLASMIC (POTENTIAL).
FT REPEAT 38 94 FG-GAP 1.
FT REPEAT 102 163 FG-GAP 2.
FT DOMAIN 167 345 VWFA.
FT REPEAT 359 420 FG-GAP 3.
FT REPEAT 422 475 FG-GAP 4.
FT REPEAT 477 537 FG-GAP 5.
FT REPEAT 539 598 FG-GAP 6.
FT REPEAT 601 653 FG-GAP 7.

```



```

FT DOMAIN 1154 1162 POLY-LEU.
FT CA_BIND 1174 1177 POLY-ARG.
FT CA_BIND 488 496 POTENTIAL.
FT CA_BIND 551 559 POTENTIAL.
FT CA_BIND 613 621 POTENTIAL.
FT DISULFID 76 83 BY SIMILARITY.
FT DISULFID 121 139 POTENTIAL.
FT DISULFID 129 159 POTENTIAL.
FT DISULFID 659 668 BY SIMILARITY.
FT DISULFID 674 729 BY SIMILARITY.
FT DISULFID 781 787 BY SIMILARITY.
FT DISULFID 881 893 BY SIMILARITY.
FT CARBOHYD 82 82 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 95 95 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 291 291 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 331 331 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 358 358 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 449 449 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 462 462 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 528 528 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 642 642 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 694 694 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 857 857 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 894 894 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 973 973 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1032 1032 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 1040 1040 N-LINKED (GLCNAC. .) (POTENTIAL).
FT VARIANT 433 433 V -> M.
FT VARIANT 524 524 R -> L.
FT VARIANT 972 972 /FTid=VAR_009890.
FT VARIANT 1003 1003 /FTid=VAR_009891.
FT VARIANT 1030 1030 /FTid=VAR_009892.
FT VARIANT 1094 1094 Missing.
FT VARIANT 1094 1094 /FTid=VAR_009893.
FT VARIANT 1094 1094 L -> V.
FT VARIANT 1094 1094 /FTid=VAR_009894.
SQ SEQUENCE 1189 AA; 133609 MW; 60303C08A4ACD52 CRC64;

Query Match 7.4%; Score 82; DB 1; Length 1189;
Best Local Similarity 21.4%; Pred. No. 16;
Matches 42; Conservative 40; Mismatches 74; Indels 40; Gaps 11;

QY 7 FLVTAIHAELQCPGAENAFKVLRSIRLTALGDK-----AYAMDTNNEEYLFKAMVAFSMRKV 61
DB 998 PPIHGIMMKITPIATRSNRLKLDFTDEVANTSCNIGNSTEYR-PTPVEEDLRA 1056
QY 62 P-----NREATEISHVLGNV-----TQVSP-----WVVVDPSKNHTLPAVEVOS-AI 105
DB 1057 POLAHNSDVSIN-----CNIRLVFNQBINFLLGNLWL-----RSLKALKYKSMKI 1104
QY 106 RMN---KNRINNAFLNDTLEFLKIPSTLAPPMDPSVPIIIRGVIFPCIIIVAILLI 162
DB 1105 MVNAAIQFHSPPFIRED-PSROIPEISKQEDWQVPIIIVGSGTIGGLHLLALLVLA 1163
QY 163 L--SGIMQRRRNKEP 176
DB 1164 LMKLGFFSARRREP 1179

```

RESULT 15

```

LEU3_PHOLL
ID LEU3 PHOLL STANDARD; PRT; 363 AA.
AC Q7N128;
DT 15-MAR-2004 (Rel. 43, Created)
DT 15-MAR-2004 (Rel. 43, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE 3-isopropylmalate dehydrogenase (EC 1.1.1.85) (Beta-IDM dehydrogenase)
DE (IMDH) (3-IPM-DH).
GN LEUB OR PLU3674.
OS Photorhabdus luminescens (subsp. laumondii).

```

```

OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Photorhabdus.
OX NCBI TaxID=141679;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=TT01; PubMed=14528314;
RX MEDLINE=22957627;
RA Duchaud E., Rusniok C., Frangeul L., Buchrieser C., Givaudan A.,
RA Tacurit S., Bocs S., Boursaux-Bude C., Chandler M., Charles J.-F.,
RA Dassa E., Derose R., Derzelle S., Freyssinet G., Gaudriault S.,
RA Medigue C., Lanois A., Powell K., Siquier P., Vincent R., Wingate V.,
RA Zouine M., Glaser P., Boemare N., Darchin A., Kunst F.
RT "The genome sequence of the entomopathogenic bacterium Photorhabdus
RT luminescens";
RT Nat. Biotechnol. 21:1307-1313(2003).
RL Nat. Biotechnol. 21:1307-1313(2003).
CC -!- FUNCTION: Catalyzes the oxidation of 3-carboxy-2-hydroxy-4-
CC methylpentanoate (3-isopropylmalate) to 3-carboxy-4-methyl-2-
CC oxopentanoate. The product decarboxylates to 4-methyl-2-
CC oxopentanoate.
CC -!- CATALYTIC ACTIVITY: 3-carboxy-2-hydroxy-4-methylpentanoate +
CC NAD(+) = 3-carboxy-4-methyl-2-oxopentanoate + NADH.
CC -!- PATHWAY: Leucine biosynthesis; third step.
CC -!- SUBUNIT: Homodimer (By similarity).
CC -!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
CC -!- SIMILARITY: Belongs to the isocitrate and isopropylmalate
CC dehydrogenases family. Leub subfamily 1.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC
CC EMBL; BX571871; CAB16047.1; --
CC Photolista; plu3674; --
CC HAMAP; MF_01033; -- 1.
CC PROSITE; PS00470; IDM IMDH; 1.
CC Oxidoreductase; Leucine biosynthesis; NAD; Complete proteome.
SQ SEQUENCE 363 AA; 39510 MW; 23126184A20FABC CRC64;

```

```

Query Match 7.4%; Score 81.5; DB 1; Length 363;
Best Local Similarity 25.0%; Pred. No. 4.4;
Matches 47; Conservative 24; Mismatches 54; Indels 63; Gaps 10;

QY 32 RTALGDKAVADTNEEYLFK-----AWVAF-SMRKVPNREATISHVLLCNVTVQSVFW-P 85
DB 152 REGQKYEAFDTEVYHFEIERIARAFESAKRSNK-----VTSIDKANVLOSSVLWRE 207
QY 86 VVTPSKNHTLPFAVEVQSAIRMNKNRINNAFFLNDTLEFLKIPSTLAPPMDPSVPIIWI 145
DB 208 VVTEIAKAV--PDVEI-----NHMYIDNATMQLIKDPSQ----- 239
QY 146 IFGVIFPCIIIVAILLIISGLIQRNKNKEPPEVDAEDKCNEMTIENG-IPSDPLDMK 204
DB 240 --FDVMLCSNIFG-----DILSDECA-MITGSMGLPSASLNEK 275
QY 205 GGLAMPS 212
DB 276 GFLYEPA 283

```

Search completed: March 31, 2004, 12:05:46
Job time : 20 secs

GenCore version 5.1.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 31, 2004, 12:02:39 ; Search time 46 Seconds
(without alignments)
1454.127 Million cell updates/sec

Title: US-09-989-724-387
Perfect score: 1102
Sequence: 1 MMLFLPLVTAHAEALCPG.....ENGIPSDPLDMKGILMMP 212

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPTREMBL 25:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phase:*
- 10: sp_plant:*
- 11: sp_podent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_rvirus:*
- 16: sp_bacteriap:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1073	97.4	222	4 Q9HBJ8	Q9hbjb8 homo sapien
2	928	84.2	222	11 Q9ESG4	Q9esg4 mus musculus
3	921	83.6	222	11 Q9ESC3	Q9esg3 rattus norv
4	376	34.1	804	4 Q9UFZ6	Q9ufz6 homo sapien
5	376	34.1	805	4 Q9NRA7	Q9nra7 homo sapien
6	376	34.1	816	4 Q9BWT0	Q9bwt0 homo sapien
7	373	33.8	805	4 Q9BYF1	Q9byf1 homo sapien
8	361	32.8	805	11 Q9R0I0	Q9r0i0 mus musculus
9	357	32.4	265	11 Q9D836	Q9d836 mus musculus
10	357	32.4	798	11 Q99N71	Q99n71 mus musculus
11	100	9.1	1053	5 Q8IAQ8	Q8iaq8 plasmodium
12	97.5	8.8	1086	5 Q18428	Q18428 geodia cydo
13	96.5	8.8	543	11 Q8C0H7	Q8c0h7 mus musculus
14	96.5	8.8	1012	11 Q70304	Q70304 mus musculus
15	95.5	8.7	1406	13 Q9W6V5	Q9w6v5 gallus gall
16	93.5	8.5	929	5 Q9VR32	Q9vr32 drosophila

17	91.5	8.3	823	11 Q8CE84	Q8ce84 mus musculus
18	91.5	8.3	1188	11 Q7TQC3	Q7tcq3 mus musculus
19	90	8.2	716	11 Q8C449	Q8c449 mus musculus
20	90	8.2	754	11 Q8BRK4	Q8brk4 mus musculus
21	89.5	8.1	161	11 Q9WUP8	Q9wup8 rattus norv
22	89.5	8.1	244	10 Q8C6E1	Q8c6e1 arabidopsis
23	89.5	8.1	1188	5 Q76326	Q76326 drosophila
24	89	8.1	1054	5 Q9U6S1	Q9u6s1 strongyloce
25	88.5	8.0	656	12 Q9QU36	Q9qu36 ttv-like mi
26	88	8.0	580	11 Q80X37	Q80x37 mus musculus
27	87	7.9	498	11 Q9D001	Q9d001 mus musculus
28	87	7.9	716	11 Q8C375	Q8c375 mus musculus
29	87	7.9	1326	2 Q8GHJ4	Q8ghj4 aeromonas p
30	86.5	7.8	252	10 Q9FX00	Q9fx00 arabidopsis
31	86.5	7.8	956	5 Q9W4T9	Q9w4t9 drosophila
32	86.5	7.8	1063	16 Q8KCX0	Q8kcx0 chlorobium
33	86	7.8	364	11 Q70509	Q70509 rattus norv
34	86	7.8	780	11 Q08779	Q08779 rattus norv
35	85.5	7.8	667	10 Q9M3D7	Q9m3d7 arabidopsis
36	85.5	7.8	826	4 Q81Y15	Q81y15 homo sapien
37	85.5	7.8	959	5 Q9N9Y9	Q9n9y9 drosophila
38	85.5	7.8	975	5 Q97174	Q97174 drosophila
39	85.5	7.8	1148	4 Q9H7S7	Q9h7s7 homo sapien
40	85.5	7.8	1488	4 Q9HCM3	Q9hcm3 homo sapien
41	84.5	7.7	252	10 Q9FGB3	Q9fgb3 arabidopsis
42	84.5	7.7	468	16 Q9JVK7	Q9jvk7 neisseria m
43	84.5	7.7	823	4 Q8WY18	Q8wy18 homo sapien
44	84.5	7.7	1033	13 Q42598	Q42598 xenopus lae
45	84.5	7.7	1112	5 Q02344	Q02344 caenorhabdi

ALIGNMENTS

RESULT 1

Q9HBJ8	PRELIMINARY;	PRT;	222 AA.
ID Q9HBJ8			
AC Q9HBJ8			
DT 01-MAR-2001 (Tremblrel. 16, Created)			
DT 01-MAR-2001 (Tremblrel. 16, Last sequence update)			
DT 01-OCT-2003 (Tremblrel. 25, Last annotation update)			
DE Kidney-specific membrane protein NX-17 (Hypothetical protein) (NX17 protein).			
OS Homo sapiens (Human).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.			
OX NCBI_TaxID=9606;			
RN [1]			
RP SEQUENCE FROM N.A.			
RX MEDLINE=21264468; PubMed=11278314;			
RA Zhang H., Wada J., Hida K., Teuchiya Y., Hiragushi K., Shikata K., Wang H., Lin S., Kanwar Y.S., Makino H.,			
RT "Collectrin, a Collecting Duct-specific Transmembrane Glycoprotein, Is a Novel Homolog of ACE2 and Is Developmentally Regulated in Embryonic Kidneys."			
RL J. Biol. Chem. 276:17132-17139 (2001).			
RN [2]			
RP SEQUENCE FROM N.A.			
RC TISSUE=Colon;			
EX MEDLINE=22388257; PubMed=12477932;			
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Schuler G.D., Klausner R.D., Collins P.S., Wagner L., Shenmen C.F., Bhat N.K., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.P., Casavant T.L., Scheetz T.E., Brownstein M.J., Uesdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullan S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia J.A., Gay L.J., Hulyk S.W., Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A., Whitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,			

RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butcherfield Y.S.,
 RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
 RA Jones S.J., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16999-16903 (2002).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Bone marrow, Colon, and Kidney;
 RA Strausberg R.;
 RL Submitted (Apr-2003) to the EMBL/GenBank/DBJ databases.
 DR ENBL: AF229179; AAG09466.1; -;
 DR ENBL: BC015099; AAH15099.1; -;
 DR ENBL: BC014317; AAH14317.1; -;
 DR ENBL: BC050606; AAH50606.1; -;
 KW Hypochemical protein.
 SQ SEQUENCE 222 AA; 25235 MW; 52C0ED522134ED05 CRC64;
 Query Match 97.4%; Score 1073; DB 4; Length 222;
 Best Local Similarity 100.0%; Pred. No. 2.7e-105;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MLWLLPLVTAIHAEELCPGAENAFKRLSIRTAIGDKAYAWDTNEEYLFKAMVAFSMRK 60
 DB 1 MLWLLPLVTAIHAEELCPGAENAFKRLSIRTAIGDKAYAWDTNEEYLFKAMVAFSMRK 60
 QY 61 VPNREATEISHVLLCNVQSVFVVTDPKNTLPAVEVQSAIRMNKRNINNAFLND 120
 DB 61 VPNREATEISHVLLCNVQSVFVVTDPKNTLPAVEVQSAIRMNKRNINNAFLND 120
 QY 121 QTLEFLKIPSTLAPPMDPSVPIIIFGVIFCIIVAIALLLSGIWQRKKEPSEVD 180
 DB 121 QTLEFLKIPSTLAPPMDPSVPIIIFGVIFCIIVAIALLLSGIWQRKKEPSEVD 180
 QY 181 DAEDKCNMTIENGIPSDPLDMKGK 206
 DB 181 DAEDKCNMTIENGIPSDPLDMKGK 206
 RESULT 2
 Q9ESG4 PRELIMINARY; PRT; 222 AA.
 ID Q9ESG4
 AC Q9ESG4
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Kidney-specific membrane protein NX-17 (0610008J07Rik protein).
 GN NX17 OR 0610008J07Rik.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ICR;
 RX MEDLINE=99362608; PubMed=10432394;
 RA Zhang H., Wada A., Kanwar Y.S., Tsuchiyama Y., Hiragushi K., Hida K.,
 RA Shikata K., Makino H.;
 RT "Screening for genes up-regulated in 5/6 nephrectomized mouse
 RT kidney";
 RL Kidney Int. 56:549-558 (1999).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Kidney;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Giesi C., King B., Kochiwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Peole G., Quackenbush J.,

RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Bares G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-P.,
 RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
 RA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
 RA Hayashizaki Y.;
 RT "Functional annotation of a full-length mouse cDNA collection.";
 RL Nature 409:685-690 (2001).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Kidney;
 RX MEDLINE=22398257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butcherfield Y.S.,
 RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
 RA Jones S.J., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16999-16903 (2002).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Kidney;
 RA Strausberg R.;
 RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
 DR ENBL: AF178085; AAG09306.1; -;
 DR ENBL: AK002337; BA020222.1; -;
 DR ENBL: BC049912; AAH49912.1; -;
 DR MGD; MGI:1926234; Nxl7.
 SQ SEQUENCE 222 AA; 25070 MW; C07E732CE92935A9 CRC64;
 Query Match 84.2%; Score 928; DB 11; Length 222;
 Best Local Similarity 84.5%; Pred. No. 6e-90;
 Matches 174; Conservative 15; Mismatches 17; Indels 0; Gaps 0;
 QY 1 MLWLLPLVTAIHAEELCPGAENAFKRLSIRTAIGDKAYAWDTNEEYLFKAMVAFSMRK 60
 DB 1 MLWLLPLVTAIHAEELCPGAENAFKRLSIRTAIGDKAYAWDTNEEYLFKAMVAFSMRK 60
 QY 61 VPNREATEISHVLLCNVQSVFVVTDPKNTLPAVEVQSAIRMNKRNINNAFLND 120
 DB 61 VPNREATEISHVLLCNVQSVFVVTDPKNTLPAVEVQSAIRMNKRNINNAFLND 120
 QY 121 QTLEFLKIPSTLAPPMDPSVPIIIFGVIFCIIVAIALLLSGIWQRKKEPSEVD 180
 DB 121 HTLEFLKIPSTLAPPMDPSVPIIIFGVIFCIIVAIALLLSGIWQRKKEPSEVD 180
 QY 181 DAEDKCNMTIENGIPSDPLDMKGK 206
 DB 181 DAEDKCNMTIENGIPSDPLDMKGK 206
 RESULT 3
 Q9ESG3 PRELIMINARY; PRT; 222 AA.
 ID Q9ESG3
 AC Q9ESG3;

01-MAR-2001 (TRENBLrel. 16, Created)
01-MAR-2001 (TRENBLrel. 16, Last sequence update)
01-MAR-2001 (TRENBLrel. 16, Last annotation update)
Kidney-specific membrane protein NX-17.
Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
NCBI_TaxID=10116;
[1]
SEQUENCE FROM N.A.
STRAIN=Sprague-Dawley;
MEDLINE=99362608; PubMed=10432394;
Zhang H., Wada J., Kanwar Y.S., Teuchiyama Y., Hiragushi K., Hida K.,
Shikata K., Makino H.;
"Screening for genes up-regulated in 5/6 nephrectomized mouse
kidney.";
Kidney Int. 56:549-558(1999).
EMBL; AF178086; AAG09307.1; -;
SEQUENCE 222 AA; 25226 MW; 7P4E166AB344P855 CRC64;
Query Match 83.6%; Score 921; DB 11; Length 222;
Best Local Similarity 84.5%; Pred. No. 3.3e-89;
Matches 174; Conservative 13; Mismatches 19; Indels 0; Gaps 0;
Qy 1 MLMLPFLVTAHSLCOPGAEAFKRLSIRTLGDKAYADWTNREYLFKAMVAFSMRK 60
Db 1 MLMLPFLVTAHSLCOPGAEAFKRLSIRTLGDKAYADWTNREYLFKAMVAFSMRK 60
Qy 61 VFNREATISHLVLLCNVQVSFWFVTDPSKNTLPAVEVQSARIMNKRINNAFFLND 120
Db 61 VFNREATISHLVLLCNVQVSFWFVTDPSKNTLPAVEVQSARIMNKRINNAFFLND 120
Qy 121 QTLFLKIPSTLAPMDPSVPIIIFGVICIIIVAILLILSGIWMORRRKNKEPSVD 180
Db 121 HTLEFLKIPSTLAPMDPSVPIIIFGVICIIIVAILLILSGIWMORRRKNKEPSVD 180
Qy 181 DAEDKCNWITIENGIPDLMKGG 206
Db 181 DAEDKCNWITIENGIPDLMKGG 206
RESULT 4
Q9UFZ6 PRELIMINARY; PRT; 804 AA.
AC Q9UFZ6;
DT 01-MAY-2000 (TRENBLrel. 13, Created)
DT 01-MAY-2000 (TRENBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Hypothetical protein (Fragment).
GN DKPZ434A014.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Wambutt R., Heubner D., Mewes H.W., Gassenhuber J., Wiemann S.;
Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AL110224; CAB53682.1; -;
DR F1R; T14762; T14762.
DR MEROPS; M02.006; -;
DR GO; GO:0016020; C:membrane; IEA.
DR GO; GO:0004246; F:peptidyl-di-peptidase A activity; IEA.
DR GO; GO:0008270; F:zinc ion binding; IEA.
DR GO; GO:0005508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001548; Peptidase_M2.
DR InterPro; IPR006025; Pept_M_Zn_BS.
DR Pfam; PF01401; Peptidase M2; 1.
DR PRINTS; PR00791; PEPTIDTASEA.
DR ProDom; PD004184; Peptidase M2; 1.
DR PROSITE; PS00142; ZINC_PROTEASE; 1.
KW Hypothetical protein.

FT NON_TER 1
SQ SEQUENCE 804 AA; 92340 MW; 91FF391074CB5DA9 CRC64;
Query Match 34.1%; Score 376; DB 4; Length 804;
Best Local Similarity 47.9%; Pred. No. 8.2e-31;
Matches 79; Conservative 32; Mismatches 48; Indels 6; Gaps 3;
Qy 19 PGAEAFKRLSIRTLGDKAYADWTNREYLFKAMVAFSMR----KVPNREAT-EISHVL 73
Db 611 PYADQSIKRLSKSLGDKAYEWNDNEMYLFRSSVAYAMQYFLKVKQNMILFGBEDVR 670
Qy 74 LCNVQVSFWFVTDPSK-NHTLPAVEVQSARIMNKRINNAFFLNDOTLEFLKIPSTL 132
Db 671 VANLKPRIISFVFTAPKNSDIIIPTEVEKAIKRSRINDAFRLNDSLEFLGIQPTL 730
Qy 133 APPMDPSVPIIIFGVICIIIVAILLILSGIWMORRRKNKEPS 177
Db 731 GPPNQPPVSIMLVFGVGVGVIVILFTGIRDRKKNKARS 775
RESULT 5
Q9NRA7
ID Q9NRA7 PRELIMINARY; PRT; 805 AA.
AC Q9NRA7;
DT 01-OCT-2000 (TRENBLrel. 15, Created)
DT 01-OCT-2000 (TRENBLrel. 15, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Angiotensin converting enzyme-like protein (ACE-related
carboxypeptidase ACE2) (angiotensin I converting enzyme
(peptidyl-di-peptidase A) 2).
GN ACE2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
SEQUENCE FROM N.A.
RC TISSUE=Lymphoma;
RA Tignis S.R., Hooper M.M., Hyde R.J., Christie G., Karran E.,
Turner A.J.;
"A Human Homolog of Angiotensin Converting Enzyme - Cloning and
Functional Expression As A Captopril-Insensitive Carboxypeptidase.";
Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
SEQUENCE FROM N.A.
RA Donoghue M., Hsieh F., Baronas E., Godbout K., Gosselin M.,
Stagliano N., Donovan M., Woolf B., Robison K., Jeyaseelan R.,
Breitbart R.E., Acton S.;
"A novel ACE-related carboxypeptidase (ACE2) converts angiotensin I to
angiotensin(1-9).";
Circ. Res. 0:0-0(2000).
RN [3]
SEQUENCE FROM N.A.
RA Rieder M.J., Carrington D.P., da Ponte S.H., Hastings N.C.,
Ahearn M.O., Kuldane S.A., Rajkumar N., Toth E.J., Yi Q.,
Nickerson D.A.;
Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
RN [4]
EMBL; AF241254; AAF78220.1; -;
DR EMBL; AF291820; AAF99721.1; -;
DR EMBL; AY217547; AAO25651.1; -;
DR MEROPS; M02.006; -;
DR GO; GO:0016020; C:membrane; IEA.
DR GO; GO:0004180; F:carboxypeptidase activity; IEA.
DR GO; GO:0004246; F:peptidyl-di-peptidase A activity; IEA.
DR GO; GO:0008270; F:zinc ion binding; IEA.
DR GO; GO:0005508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001548; Peptidase_M2.
DR InterPro; IPR006025; Pept_M_Zn_BS.
DR Pfam; PF01401; Peptidase M2; 1.
DR PRINTS; PR00791; PEPTIDTASEA.
DR ProDom; PD004184; Peptidase M2; 1.
DR PROSITE; PS00142; ZINC_PROTEASE; 1.
KW Carboxypeptidase.

SQL SEQUENCE 805 AA; 92462 MW; 8E86E0A93155088 CRC64;
Query Match 34.1%; Score 376; DB 4; Length 805;
Best Local Similarity 47.9%; Pred. No. 8.2e-31;
Matches 79; Conservative 32; Mismatches 48; Indels 6; Gaps 3;
QY 19 PGAEAFKVRSLRTALGDKAYAWDTNNEEYLFKAMVAFSMR----KVPNREAT-EISHVL 73
DB 612 PYADQSIKVRISLSKALGDKAYEWNDNEMYLFRSSVAYAMQYFLVKVKNQMLFGEDVR 671
QY 74 LCNVTORVSFWFVVDPSK-NHTLPVAVQSARIMKNNRINNAFFLNDQTLFELKIPSTL 132
DB 672 VANLKPRISFNFPVTPAKNVSDIIPRTEVEKAIMRSRINDAFRLNDSLEFLGIQPTL 731
QY 133 APPMDPSVPIIIFGVICIIIVAILLILSGIMORRRKKKPS 177
DB 732 GPPNPQPVSIWLVFGVGMVIVGVILIFTGIRDKKKKKARS 776
RESULT 6
Q86WT0 PRELIMINARY; PRT; 816 AA.
AC Q86WT0;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Similar to angiotensin I converting enzyme (Peptidyl-di-peptidase A) 2
DE (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RC TISSUE=Testis;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC048094; AAH48094.1; -
DR GO; GO:0016020; C-membrane; IEA.
DR GO; GO:0004246; F:peptidyl-di-peptidase A activity; IEA.
DR GO; GO:0008270; F:zinc ion binding; IEA.
DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001548; Peptidase M2.
DR Pfam; PF01401; Peptidase M2; 1.
DR PRINTS; PR00791; PEPDIPTASEA.
DR ProDom; PD004184; Peptidase M2; 1.
DR PROSITE; PS00142; ZINC_PROTEASE; 1.
FT NON_TER 1
SQL SEQUENCE 816 AA; 93516 MW; EF8BD58B3DA2EDF3 CRC64;
Query Match 34.1%; Score 376; DB 4; Length 816;
Best Local Similarity 47.9%; Pred. No. 8.3e-31;
Matches 79; Conservative 32; Mismatches 48; Indels 6; Gaps 3;
QY 19 PGAEAFKVRSLRTALGDKAYAWDTNNEEYLFKAMVAFSMR----KVPNREAT-EISHVL 73
DB 623 PYADQSIKVRISLSKALGDKAYEWNDNEMYLFRSSVAYAMQYFLVKVKNQMLFGEDVR 682
QY 74 LCNVTORVSFWFVVDPSK-NHTLPVAVQSARIMKNNRINNAFFLNDQTLFELKIPSTL 132
DB 683 VANLKPRISFNFPVTPAKNVSDIIPRTEVEKAIMRSRINDAFRLNDSLEFLGIQPTL 742
QY 133 APPMDPSVPIIIFGVICIIIVAILLILSGIMORRRKKKPS 177
DB 743 GPPNPQPVSIWLVFGVGMVIVGVILIFTGIRDKKKKKARS 787
RESULT 7
Q86YF1 PRELIMINARY; PRT; 805 AA.
ID Q86YF1
AC Q86YF1;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)

DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
GN ACE2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Komatsu T., Suzuki Y., Sugano S.;
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Suzuki Y., Watanabe M., Sugano S.;
RT "Cloning, expression analysis and chromosomal localization of a novel
RT ACE like enzyme.";
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB046569; BAB40370.1; -
DR MEROPS; M02.006; -
DR Genew; HGNC:13557; ACE2.
DR GO; GO:0016020; C-membrane; IEA.
DR GO; GO:0004246; F:peptidyl-di-peptidase A activity; IEA.
DR GO; GO:0008270; F:zinc ion binding; IEA.
DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001548; Peptidase M2.
DR InterPro; IPR006025; Pept M2n_BS.
DR Pfam; PF01401; Peptidase M2; 1.
DR PRINTS; PR00791; PEPDIPTASEA.
DR ProDom; PD004184; Peptidase M2; 1.
DR PROSITE; PS00142; ZINC_PROTEASE; 1.
SQ SEQUENCE 805 AA; 92491 MW; D2AAB4C27088EB72 CRC64;
Query Match 33.8%; Score 373; DB 4; Length 805;
Best Local Similarity 47.3%; Pred. No. 1.7e-30;
Matches 78; Conservative 33; Mismatches 48; Indels 6; Gaps 3;
QY 19 PGAEAFKVRSLRTALGDKAYAWDTNNEEYLFKAMVAFSMR----KVPNREAT-EISHVL 73
DB 612 PYADQSIKVRISLSKALGDKAYEWNDNEMYLFRSSVAYAMQYFLVKVKNQMLFGEDVR 671
QY 74 LCNVTORVSFWFVVDPSK-NHTLPVAVQSARIMKNNRINNAFFLNDQTLFELKIPSTL 132
DB 672 VANLKPRISFNFPVTPAKNVSDIIPRTEVEKAIMRSRINDAFRLNDSLEFLGIQPTL 731
QY 133 APPMDPSVPIIIFGVICIIIVAILLILSGIMORRRKKKPS 177
DB 732 GPPNPQPVSIWLVFGVGMVIVGVILIFTGIRDKKKKKARS 776
RESULT 8
Q86R10 PRELIMINARY; PRT; 805 AA.
ID Q86R10
AC Q86R10;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE RIKEN cDNA 2010305L05 gene.
GN ACE2 OR 2010305L05RIK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Kidney;
RA Strausberg R.;
RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC026801; AAH26801.1; -
DR MGI; MGI:1917258; Ace2.
DR GO; GO:0016020; C-membrane; IEA.
DR GO; GO:0004246; F:peptidyl-di-peptidase A activity; IEA.
DR GO; GO:0008270; F:zinc ion binding; IEA.

DR GO: 0006508; P:proteolysis and peptidolysis; IEA.
 DR InterPro: IPR001548; Peptide M2.
 DR InterPro: IPR006025; Peptide M2.
 DR InterPro: IPR001680; WD40.
 DR Pfam: PF01401; Peptidase M2; 1.
 DR PRINTS: PR00791; PEPDIPASEA.
 DR ProDom: PD004184; Peptidase M2; 1.
 DR PROSITE: PS00678; WD_REPEATS_1; 1.
 DR PROSITE: PS00142; ZINC_PROTEASE; 1.
 SQ SEQUENCE 805 AA; 92367 MW; D8B883AAC966A8D9 CRC64;

Query Match 32.8%; Score 361; DB 11; Length 805;
 Best Local Similarity 40.9%; Pred. No. 3.2e-29;
 Matches 81; Conservative 35; Mismatches 52; Indels 30; Gaps 5;

Qy 19 PGAENAFKVRISIRLTALGDKAYADTNEEYLFKAMVAFSMRK-----VPNREATEI 69
 Db 612 PYADQSIKVRISLKSALGANAYETNNEMFLFRSSVAYAMRKYPFIIKNQTVPFLE---- 667

Qy 70 SHVLLCNVTQVRSFWFVVDPSK-NHTLPVAVESQAIEMNKNRINNAPFLNDQTLFLKI 128
 Db 668 EDVRVSLDKRVSYFFVFTSPQVSDVIPRSEVEDAIRMSGRINDVFGFLNDSLEFLGI 727

Qy 129 PSTLAPMDSPVPIIIFGVIFCIIVAIALLILSGIWQRKRNKPESEVDDAEDKCN 188
 Db 728 HPTLEPPYQPPVTIILIFGVVMAVGVVGIILVTGKGRKKNETKRE----- 777

Qy 189 MITIENGIPDPLMKGG 206
 Db 778 ----EN--PYDSMDIGK 789

RESULT 9
 Q9D836
 ID Q9D836 PRELIMINARY; PRT; 265 AA.
 AC Q9D836;
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)
 DT 01-JUN-2003 (TrEMBLrel. 23, Last sequence update)
 DE Adult male small intestine cDNA, RIKEN full-length enriched library,
 DE clone:2010305L05 product:ANIGOTENSIN-converting enzyme-related
 DE carboxypeptidase, full insert sequence (Fragment).
 GN ACE2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Small intestine;
 RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,
 RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
 RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,
 RA Inotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
 RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
 RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,
 RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,
 RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,
 RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
 RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
 RA Muramatsu M., Hayashizaki Y.;
 RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Small intestine;
 EX MEDLINE=22354683; PubMed=12466851;
 RA The RIKEN Consortium,
 RA The RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs.";
 RL Nature 420:563-573(2002).
 RN [3]
 RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Small intestine;
 RA MEDLINE=21085660; PubMed=11217851;
 RX RIKEN FANTOM Consortium;
 RT "Functional annotation of a full-length mouse cDNA collection.";
 RL Nature 409:685-690(2001).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Small intestine;
 EX MEDLINE=99279253; PubMed=10349636;
 RA Carninci P., Hayashizaki Y.;
 RT "High-efficiency full-length cDNA cloning.";
 RL Meth. Enzymol. 303:19-44(1999).
 RN [5]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Small intestine;
 EX MEDLINE=20499374; PubMed=11042159;
 RA Carninci P., Shibata Y., Hayateu M., Sugahara Y., Shibata K., Itoh M.,
 RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
 RT "Normalization and subtraction of cap-trapper-selected cDNAs to
 RT prepare full-length cDNA libraries for rapid discovery of new genes.";
 RL Genome Res. 10:1617-1630(2000).
 RN [6]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Small intestine;
 EX MEDLINE=20530913; PubMed=11076861;
 RA Shibata K., Itoh M., Aizawa K., Nagao K., Sasaki N., Carninci P.,
 RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
 RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
 RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
 RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
 RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
 RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
 RT "RIKEN integrated sequence analysis (RISA) system-384-format
 RT sequencing pipeline with 384 multipillar sequencer.";
 RL Genome Res. 10:1757-1771(2000).
 DR EMBL: AK008530; BAB25723.2; --
 DR MGD; MGI:1917258; Ace2.
 DR GO: GO:0016020; C:membrane; IEA.
 DR GO: GO:0004246; F:peptidyl-diesterase A activity; IEA.
 DR GO: GO:0006508; P:proteolysis and peptidolysis; IEA.
 DR InterPro: IPR001548; Peptidase M2.
 DR Pfam: PF01401; Peptidase_M2; 1.
 FT NON_TER 1
 SQ SEQUENCE 265 AA; 30078 MW; 2A02B2C3817C76C CRC64;

Query Match 32.4%; Score 357; DB 11; Length 265;
 Best Local Similarity 44.1%; Pred. No. 2.2e-29;
 Matches 75; Conservative 33; Mismatches 48; Indels 14; Gaps 3;

Qy 19 PGAENAFKVRISIRLTALGDKAYADTNEEYLFKAMVAFSMRK-----VPNREATEI 69
 Db 72 PYADQSIKVRISLKSALGANAYETNNEMFLFRSSVAYAMRKYPFIIKNQTVPFLE---- 127

Qy 70 SHVLLCNVTQVRSFWFVVDPSK-NHTLPVAVESQAIEMNKNRINNAPFLNDQTLFLKI 128
 Db 128 EDVRVSLDKRVSYFFVFTSPQVSDVIPRSEVEDAIRMSGRINDVFGFLNDSLEFLGI 187

Qy 129 PSTLAPMDSPVPIIIFGVIFCIIVAIALLILSGIWQRKRNKPESE 178
 Db 188 HPTLEPPYQPPVTIILIFGVVMAVGVVGIILVTGKGRKKNETKRE 237

RESULT 10
 Q99N71
 ID Q99N71 PRELIMINARY; PRT; 798 AA.
 AC Q99N71;
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)
 DT 01-JUN-2003 (TrEMBLrel. 17, Last sequence update)
 DE "Analysis of the mouse transcriptome based on functional annotation of
 DE 60,770 full-length cDNAs.";
 GN 2010305L05RIK OR ACE2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Komatsu T., Sugano S., Inai J., Suzuki Y., Hanaoka K., Ymada Y.,
 RA Hida M., Tanigami A., Muroi S.;
 RT "Molecular cloning, mRNA expression, and chromosomal localization of
 RT mouse Angiotensin-converting Enzyme-Related Carboxypeptidase.";
 RL Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.
 RL EMBL; AB053181; BAB40431.1; -
 DR MEROPS; M02.006; -
 DR MGD; MGI:1917258; Ace2.
 DR GO; GO:0016020; C-membrane; IEA.
 DR GO; GO:0004180; F-carboxypeptidase activity; IEA.
 DR GO; GO:0004246; F-peptidyl-dipeptidase A activity; IEA.
 DR GO; GO:0008270; F-zinc ion binding; IEA.
 DR GO; GO:0006508; P-proteolysis and peptidolysis; IEA.
 DR InterPro; IPR001548; Peptidase M2.
 DR InterPro; IPR006025; Pept M_Zn_BS.
 DR InterPro; IPR001680; WD40.
 DR Pfam; PF01401; Peptidase M2; 1.
 DR PRINTS; PR00791; PEPTIDPTASEA.
 DR PRODOM; PD004184; Peptidase M2; 1.
 DR PROSITE; PS00678; WD_REPEATS_1; 1.
 DR PROSITE; PS00142; ZINC_PROTEASE; 1.
 KW Carboxypeptidase.
 SQ SEQUENCE 798 AA; 91943 MW; 403AEA29D55725A4 CRC64;
 Query Match 32.4%; Score 357; DB 11; Length 798;
 Best Local Similarity 44.1%; Pred. No. 8.3e-29;
 Matches 75; Conservative 33; Mismatches 48; Indels 14; Gaps 3;
 QY 19 PGNAFAKVLRTALGDYAWDNEEYLFKAVAFNSRK-----VFNREATEI 69
 DB 612 PYADQSIKRVISUKSALGANAYETNNEMFLFSSVAYAMRYFSIKNQTVFLE---- 667
 QY 70 SHVLLCNVTVQVFWFVTDPSK-NHTLPAVEVQSALRMKNKRNINNAFFLNDTLEFLKI 128
 DB 668 EDVRVDLKRVSFYFVTSFQNVSDVIFRSEVEDAIRMSRGINDVGLNDNSLEFLGI 727
 QY 129 PSTLAPPMPDPSPIWIIIFGVIFCIIVAIALLILSGIMWRRRNKEPSE 178
 DB 728 HPTLEPPYQPVTVIILIFGVWVALVVGIIILVTGKRGKKKNETKRE 777
 RESULT 11
 Q81AQ8 PRELIMINARY; PRT; 1053 AA.
 AC Q81AQ8;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Vacuolar proton-translocating ATPase subunit A, putative.
 OS Plasmodium falciparum (isolate 3D7).
 OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
 OX NCBI_TaxID=36329;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Seeger K., Murphy L., Harris D., Berriman M., Pain A., Hall N.,
 RA Quail M., Barrell B.;
 RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AL844507; CAD51303.1; -
 DR GO; GO:0016020; C-membrane; IEA.
 DR GO; GO:0015992; P-proton transport; IEA.
 DR InterPro; IPR002490; V_ATPase sub116.
 DR Pfam; PF01496; V_ATPase sub a; 1.
 SQ SEQUENCE 1053 AA; 122998 MW; 889F2559D3FC3F08 CRC64;
 Query Match 9.1%; Score 100; DB 5; Length 1053;
 Best Local Similarity 21.3%; Pred. No. 0.19;
 Matches 43; Conservative 31; Mismatches 72; Indels 56; Gaps 8;
 QY 22 ENAFKVLRTALGDYAWDNEEYLFKAVAFNSRKVPNREATEISHVLIC----- 75

DB 330 EHAKKELKELREIINDKELKAYEYFNEIPVLINVVFPNKNLSIEBWKLFCKKERHI 389
 QY 76 -----NVTQVSFWFVTDPSK-NHTLPAVEVQSALRMKNKRNINNAFFLNDOTL- 123
 DB 390 YNNLNYFEGSDITLRCDCWYSANDEEKIRHIL-----INKSSNDLVGALLSKILR 441
 QY 124 -----EFLK-----IPSTLAPP-----MDPSVPIWI-----IFGVIF-----CI 153
 DB 442 PNVSPPTVYKTFEFTKSYQSWDVTGYVPRYGEINPAISTIIITPFLFGIMYGDVGHGLCI 501
 QY 154 IIVAIALLILSGIMWRRRNKE 175
 DB 502 ELFALFLIIMNNKVKNNKNNNE 523
 RESULT 12
 O18428 PRELIMINARY; PRT; 1086 AA.
 AC O18428;
 DT 01-JAN-1998 (TrEMBLrel. 05, Created)
 DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Integrin.
 OS Geodia cydonium (Sponge).
 OC Eukaryota; Metazoa; Porifera; Demospongiae; Tetractinomorpha;
 OC Astrophorida; Geodiidae; Geodia.
 OX NCBI_TaxID=6047;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97254997; PubMed=9100369;
 RA Pancer Z., Kruse M., Mueller I., Mueller W.E.G.;
 RT "On the origin of adhesion receptors of metazoa: Cloning of the
 RT integrin alpha subunit cDNA from the sponge Geodia cydonium.";
 RL Mol. Biol. Evol. 14:391-398(1997).
 DR EMBL; X97283; CAA65943.1; -
 DR PIR; T18523; T18523.
 DR GO; GO:0008305; C-integrin complex; IEA.
 DR GO; GO:0004895; P-cell adhesion receptor activity; IEA.
 DR GO; GO:0007160; P-cell-matrix adhesion; IEA.
 DR InterPro; IPR000413; Integrin_alpha.
 DR Pfam; PF01839; FG-GAP; 3.
 DR PRINTS; PR01185; INTEGRINA.
 DR SMART; SM00191; Int_alpha; 4.
 SQ SEQUENCE 1086 AA; 118628 MW; 269189D0364DBFA5 CRC64;
 Query Match 8.8%; Score 97.5; DB 5; Length 1086;
 Best Local Similarity 25.5%; Pred. No. 0.37;
 Matches 36; Conservative 24; Mismatches 52; Indels 29; Gaps 6;
 QY 63 NREATEISHVL-----LCNVTVQVSFWFVTDPSKNHTLPAVEVQSALRMKNKRNINNAFFL 118
 DB 963 NRQVQVSIAVIDERHAGIDSYTF-----PSAQ-----VEMVGSDHINESNTKD----- 1007
 QY 119 NDOTLEFLKIPSTLAPP-----DPSVPIWIIIFGVIFCIIVAIALLILSGIMWRRRN 173
 DB 1008 NNASAFRSIPGELVVPSSGSDSESVFWIVIAVPIIAVLIIVAVLVFCGFFREKN 1067
 QY 174 KEFSEVDDADCKENMITTEN 194
 DB 1068 KQ-----ETEDQARENLAEN 1083
 RESULT 13
 Q8COH7 PRELIMINARY; PRT; 543 AA.
 AC Q8COH7;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Alpha 8 integrin (Fragment).
 GN AI447669.
 OS Mus musculus (Mouse).

```

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs."
RL Nature 420:563-573(2002).
DR EMBL; AK031326; BAC27348.1; -.
DR MGD; MGI:2138946; A1447669.
DR GO; GO:0008305; C:integrin complex; IEA.
DR GO; GO:0004895; F:cell adhesion receptor activity; IEA.
DR GO; GO:0007160; P:cell-matrix adhesion; IEA.
DR InterPro; IPR000413; Integrin_alpha.
DR Pfam; PF00357; Integrin_A; 1.
DR PRINTS; PR01185; INTEGRINA.
DR PROSITE; PS00242; INTEGRIN_ALPHA; 1.
FT NON_TER 1
SQ SEQUENCE 543 AA; 61249 MW; 430DCB3279A8FD4 CRC64;

Query Match      8.8%; Score 96.5; DB 11; Length 543;
Best Local Similarity 22.0%; Pred. No. 0.2;
Matches 37; Conservative 32; Mismatches 40; Indels 59; Gaps 8;

QY 20 GAENAFKVLRLSIRLTALGDKAYAWDTNVEYLFKAMVAFSMRKVPNREATEISHVLLCNVTQ 79
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
421 GGSAAV---LKVSRSLWAHTFLKRNKNDHYALASLVSEFKQMPYKX----- 463

QY 80 RVSEFWVVTDPKSNHTLPA--VEVQSAIRMNKNRINNAPFLNDQTLFLKIPSTLAPMD 137
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
464 -----QPAK-----LPAGSTAVKTSV-----IWAT---PNVS 487

QY 138 PSVPIWIIIFGVICIIIVAIALLIL--SGIWRRRKNKPESEVDAAE 183
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
488 FSIPLWVIIAILLGLLVLAITLALWKCGFDRARPPQD--EMTDRE 533

RESULT 14
ID O70304 PRELIMINARY; PRT; 1012 AA.
AC O70304;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DE 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Integrin alpha8 (Fragment).
GN ITGA8.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC MEDLINE=97207007; PubMed=9054500;
RA Muller U., Wang D., Denda S., Meneses J.J., Pedersen R.A.,
RA Reichardt L.F.;
RT "Integrin alpha8 beta1 is critically important for epithelial-
RT mesenchymal interactions during kidney morphogenesis."
RL Cell 88:603-613(1997).
RN [2]
RP SEQUENCE FROM N.A.
RC MEDLINE=98217301; PubMed=9548928;
RA Denda S., Muller U., Crossin K.L., Erickson H.P., Reichardt L.F.;
RA "Utilization of a soluble integrin-alkaline phosphatase chimera to
RT characterize integrin alpha 8 beta 1 receptor interactions with
RT tenascin: murine alpha 8 beta 1 binds to the RGD site in tenascin-C
RT fragments, but not to native tenascin-C."
RL Biochemistry 37:5464-5474(1998).
DR EMBL; AF041409; AAC15665.1; -.
DR HSP; P06756; 1JV2.

```

```

DR MGD; MGI:109442; Itga8.
DR GO; GO:0008305; C:integrin complex; IEA.
DR GO; GO:0004895; F:cell adhesion receptor activity; IEA.
DR GO; GO:0007160; P:cell-matrix adhesion; IEA.
DR InterPro; IPR000413; Integrin_alpha.
DR Pfam; PF01839; PG-GAP; 4.
DR Pfam; PF00357; Integrin_A; 1.
DR PRINTS; PR01185; INTEGRINA.
DR SMART; SM00191; Int_alpha; 5.
DR PROSITE; PS00242; INTEGRIN_ALPHA; 1.
FT NON_TER 1
FT NON_TER 1012 1012
SQ SEQUENCE 1012 AA; 112384 MW; 2A535AEC33867581 CRC64;

Query Match      8.8%; Score 96.5; DB 11; Length 1012;
Best Local Similarity 22.0%; Pred. No. 0.43;
Matches 37; Conservative 32; Mismatches 40; Indels 59; Gaps 8;

QY 20 GAENAFKVLRLSIRLTALGDKAYAWDTNVEYLFKAMVAFSMRKVPNREATEISHVLLCNVTQ 79
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
896 GGSAAV---LKVSRSLWAHTFLKRNKNDHYALASLVSEFKQMPYKX----- 938

QY 80 RVSEFWVVTDPKSNHTLPA--VEVQSAIRMNKNRINNAPFLNDQTLFLKIPSTLAPMD 137
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
939 -----QPAK-----LPAGSTAVKTSV-----IWAT---PNVS 962

QY 138 PSVPIWIIIFGVICIIIVAIALLIL--SGIWRRRKNKPESEVDAAE 183
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
963 FSIPLWVIIAILLGLLVLAITLALWKCGFDRARPPQD--EMTDRE 1008

RESULT 15
QY 15
ID Q96V5 PRELIMINARY; PRT; 1406 AA.
AC Q96V5;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Supporting-cell antigen precursor.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Intestine;
RC TISSUE=Intestine;
RX MEDLINE=9295852; PubMed=10366616;
RA Kruger R.P., Goodyear R.J., Legan P.K., Warchol M., Raphael Y.,
RA Cotanche D.A., Richardson G.P.;
RT "The supporting-cell antigen: a receptor-like protein tyrosine
RT phosphatase expressed in the sensory epithelia of the inner ear."
RL J. Neurosci. 19:4815-4827(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Intestine;
RA Legan P.K.;
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ238216; CAB41885.2; -.
DR HSP; P18052; IYFO.
DR GO; GO:0016787; F:hydrolase activity; IEA.
DR GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.
DR GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.
DR InterPro; IPR003961; FN_III.
DR InterPro; IPR008957; FN_III-like.
DR InterPro; IPR00387; TYR_phosphatase.
DR InterPro; IPR00242; Tyr_PP.
DR Pfam; PF00041; fn3; 9.
DR Pfam; PF00102; Y_phosphatase; 1.
DR PRINTS; PR00700; PRTYPHPTASE.
DR SMART; SM00060; FN3; 9.
DR SMART; SM00194; PTPC; 1.
DR PROSITE; PS00383; TYR_PHOSPHATASE_1; 1.

```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: April 4, 2004, 00:52:44 ; Search time 2717 Seconds
(without alignments)
2330.063 Million cell updates/sec

Title: US-09-989-724-387
Perfect score: 1102
Sequence: 1 MMLLFLVTAHAELOCPG.....ENGIPSDPLDMKGGILMMP5 212

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 27513289 seqs, 14931090276 residues
Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlh
-O=/cnp2_1/USPTO spoal/US09989724/runat_31032004_081141_13300/app query.fasta_1.391
-DB=EST -OPMT=fastap -SUFFIX=rst -MINMATCH=0.1 -LOOPEL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.coi -LIST=45
-DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTPMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09989724 @CNP 1 1 1906 @runat_31032004_081141_13300 -NCPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : EST:
1: em_estba.*
2: em_esthum.*
3: em_estin.*
4: em_estmu.*
5: em_estov.*
6: em_estpl.*
7: em_estro.*
8: em_htc.*
9: gb_est1.*
10: gb_est2.*
11: gb_htc.*
12: gb_est3.*
13: gb_est4.*
14: gb_est5.*
15: em_estfun.*
16: em_estom.*
17: em_gss_hum.*
18: em_gss_inv.*
19: em_gss_pln.*
20: em_gss_vrt.*
21: em_gss_fun.*
22: em_gss_mam.*
23: em_gss_mus.*
24: em_gss_pro.*
25: em_gss_rtd.*
26: em_gss_phg.*
27: em_gss_vrl.*
28: gb_gss1.*

29: gb_gss2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1089	98.8	669	29	AY399636 Homo sapi
2	1085.5	98.5	792	12	BG400845 602464068
3	1081	98.1	870	12	BI760941 603043142
4	1078	97.8	663	14	CB139945 K-BST0193
5	1056	95.8	639	14	CB137859 K-BST0190
6	1048	95.1	855	12	BG427247 602494304
7	1039	94.3	866	12	BG429618 602501304
8	1036	94.0	780	12	BG429174 602498032
9	1033	93.7	791	12	BG400319 602464526
10	1026	93.1	804	12	BG429705 602493709
11	1024	92.9	859	12	BG427839 602501524
12	1021	92.6	782	12	BG433974 602497274
13	1012	91.8	808	12	BG399473 602441206
14	1010	91.7	736	12	BG399402 602441161
15	1001.5	90.9	850	12	BG430955 602500255
16	996	90.4	607	14	CB125058 K-BST0173
17	996	90.4	888	12	BG400513 602464748
18	988	89.7	677	12	BG427745 602497114
19	986	89.5	1081	12	BM811234 AGENCOURT
20	980	88.9	978	12	BI762437 603048828
21	967	87.7	678	12	BG429011 602501924
22	945.5	85.8	602	12	BG432624 602500789
23	932.5	84.6	801	12	BG428217 602498872
24	931	84.5	669	29	AY399638 Mus muscu
25	931	84.5	720	12	BI102475 60289668
26	931	84.5	755	14	CB955052 AGENCOURT
27	931	84.5	1210	11	AK002337 Mus muscu
28	929.5	84.3	884	12	BG399975 AV653898
29	929	84.3	735	9	AV653898 AV653898
30	928	84.2	656	12	BI143454 602907630
31	926	84.0	793	12	BI103785 602887878
32	923	83.8	797	12	BI101134 602886818
33	919.5	83.4	724	14	CB599934 AGENCOURT
34	919	83.4	874	14	CF550832 AGENCOURT
35	905	82.1	981	10	BF784771 602111117
36	904	82.0	842	12	BI101926 602887622
37	904	82.0	1051	12	BG399950 602442002
38	903	81.9	750	14	CB599563 AGENCOURT
39	897	81.4	915	10	BF789250 602105150
40	893	81.0	782	12	BG969864 602838808
41	883	80.1	669	29	AY399637 Pan trogl
42	879	79.8	765	9	AV652853 AV652853
43	877	78.6	730	14	CD241570 AGENCOURT
44	869	78.9	742	12	BG969794 602838708
45	862	78.2	901	10	BF786687 602111448

ALIGNMENTS

RESULT 1
AY399636
LOCUS
DEFINITION Homo sapiens HCM0290 gene, VIRTUAL TRANSCRIPT, partial sequence, 669 bp DNA linear GSS 12-DEC-2003
ACCESSION AY399636
VERSION AY399636.1
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 669)

AUTHORS Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, P., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.
TITLE Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios
JOURNAL Science 302 (5652), 1960-1963 (2003)
PUBMED 14671302
REFERENCE 2 (bases 1 to 669)
AUTHORS Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, P., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.
TITLE Direct Submission
JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering them based on alignment.
FEATURES
source Location/Qualifiers
1..669
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
gene <1..>669
/locus_tag="HC04290"
ORIGIN
Alignment Scores:
Pred. No.: 7,696-131 Length: 669
Score: 1089.00 Matches: 212
Percent Similarity: 99.53% Conservative: 0
Best Local Similarity: 99.53% Mismatches: 0
Query Match: 98.82% Indels: 1
DB: 29 Gaps: 0
US-09-989-724-387 (1-212) x AY399636 (1-669)
QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 1 ATGTGTGGCTGCTCTTTTCTGGTGACTGCCATTCATGCACTGTCAACAGGT 60
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 61 GCAGAAATGCTTTTAAATGAGACTTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 120
QY 41 AlaTrpAspThrAsnGluLufyLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 121 GCCTGGATACCAATCAAGATACCTCTTCAAAGCGATGCTTCTCCATGAGAAAA 180
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuLeuCysAsnValThrGlnArg 80
DB 181 GTTCCCAACAGAGAACACAGAAATTTCCCATGTCTTCTTGCATGTAAACCCAGAG 240
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 241 GTATCATCTCTGTTGTGTGTACAGACCTTCAAAAATACACACCTTCTGCTGTGTAG 300
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 301 GTGCAATCAGCCATAAGATGAACAGACCGGATCAACAATGCCCTTCTTCTAAATGAC 360
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 361 CAAACTCTGGAATTTTAAATAATCCCTTCCACACTTGCACCCACCCACCCATCTGTG 420
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeu 160
DB 421 CCATCTCGAATTAATATTTGGTGTGATATTTTGCATCATCATAGTTCAATGCACTA 480
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp 180
DB 481 CTGATTTATCAGGATCTGGCAACCTAGAGAGAGAACAAAGAACCAATCTGAAGTGAT 540

QY 181 AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro 200
DB 541 GAGCTCTGAAGATAAGTGTCAAAACATGATCACAATTTGAAATGCGATCCCTCTGATCCC 600
QY 201 LeuAspMetLysGly-GlyIleLeuMetMetProSer 212
DB 601 CTGGACATGAGAGGAGGCGATATTATGATGACCTTCA 637
RESULT 2
BG400845 792 bp mRNA linear EST 12-MAR-2001
LOCUS 602464068P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4592296 5',
DEFINITION mRNA sequence.
ACCESSION BG400845
VERSION BG400845.1 GI:13294293
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 792)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaabbs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1330 row: g column: 17
High quality sequence stop: 784.
FEATURES
Location/Qualifiers
1..792
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4592296"
/lab_host="DH10B (T1 phage-resistant)"
/note="lib=NIH MGC_75"
/note="Organ: Kidney; Vector: pDNR-LIB (Clontech); Site: 1;
SfiI (ggccattggcc); Site 2: SfiI (ggccattggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGCCATTATGGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCGAGCGCGCATG-3' (30) BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."
ORIGIN
Alignment Scores:
Pred. No.: 2,86-130 Length: 792
Score: 1085.50 Matches: 211
Percent Similarity: 99.06% Conservative: 0
Best Local Similarity: 99.06% Mismatches: 1
Query Match: 98.50% Indels: 1
DB: 12 Gaps: 1
US-09-989-724-387 (1-212) x BG400845 (1-792)
QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 32 ATGTTGTGGCTGCTCTTTTCTGGTGACTGCGCATTCATGCTGCAACAGGT 91
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 92 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 151

Qy	121	GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal	140
Db	391	CARACTCTGGAAATTTTAAAAATCCCTTCACACTTGCACCCACCCATCTGTG	450
Qy	141	ProIleTrrIlellePheGlyValIlePheCysIlellelleValAlaIleAlaLeu	160
Db	451	CCCATCTGGGAAATATATATTGTGTGATATTTTGCATCATCATAGTTGCAATTGCAC	510
Qy	161	LeuIleLeuSerGlyIleTrrPGLnArGArGLysAsnLysGluProSerGluValAsp	180
Db	511	CTGATTTTATCAGGATCTGGCAACGTAGAGAAGAAAGACCAACCATCTGAAGTGGAT	570
Qy	181	AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro	200
Db	571	GACGCTGAAGATAAGTGTGAAAAATCATGATCACAATTTGAAAAATGGCATCCCTCTGATCCC	630
Qy	201	LeuAspMet	203
Db	631	CTGGACATG	639
RESULT 6			
LOCUS	BG427247		
DEFINITION	602494304F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4608048 5',	855 bp	linear EST 14-MAR-2001
ACCESSION	BG427247		
VERSION	BG427247.1		
KEYWORDS	GI:13333753		
SOURCE	mRNA sequence.		
ORGANISM	Homo sapiens (human)		
REFERENCE	Homo sapiens		
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
TITLE	Mammalia; Rutheria; Primates; Catarrhini; Hominidae; Homo.		
JOURNAL	1 (bases 1 to 855)		
COMMENT	NIH-MGC http://mgs.nci.nih.gov/ .		
	National Institutes of Health, Mammalian Gene Collection (MGC)		
	Unpublished (1999)		
	Contact: Robert Strausberg		

Alignment Scores:	
Pred. No.:	1,448-126
Score:	1056.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	95.83%
DB:	14
	14
	0
Length:	639
Matches:	203
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

Qy	1	MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly	20
Db	31	ATGTTGTGGCTGCTCTTTTTCGTGTGATGCCATTATGCTGAACCTCTGTC AACAGGT	90
Qy	21	AlaGluAsnAlaPheIysValArgLeuSerIleArgThrAlaIleuGlyAspLysAlaTyr	40
Db	91	GCAGAAAAATGCTTTTAAAGTAGCATTAGTATACGAACAGCTCTGGGAGATAAAGCATAT	150
Qy	41	AlaTrpAspThrAsnGluGluTyrIleuPheLysAlaMetValAlaPheSerMetArgLys	60
Db	151	GCCTGGGATACCAATGAGAGATACCTCTTCAAGCGGATGGTAGCTTTCTCATGAGAAA	210
Qy	61	ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg	80
Db	211	GTTCCNACAGAGAGACACAGAAATTTCCCATGTCTCTATTGGCAATGTAAACCCAGAG	270
Qy	81	ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu	100
Db	271	GTATCATCTCTGCTTGTGTGTACAGACCTTTCAAAAAATCACACCCCTTCTCTGCTGTGAG	330
Qy	101	ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp	120
Db	331	GTGCAATCAGCCATGAAGATGAAACAAGAACCGGATCAACAAATGCTTTCTTTCTAAATGAC	390

```

1. .855
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4608048"
/lab_host="DH10B (TI phage-resistant)"
/clone_lib="NIH_MGC_75"
/note="Organ: Kidney; Vector: pDNR-LfB (Clontech); Site 1: SfiI (ggccgctggcc); Site 2: SfiI (ggccattggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGCGCCGACATG-dt(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb), 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."

```

ORIGIN

Alignment Scores:		
Pred. No.:	2,41e-125	Length: 855
Score:	1048.00	Matches: 211
Percent Similarity:	98.60%	Conservative: 0
Best Local Similarity:	98.60%	Mismatches: 1

```
Query Match: 95.10% Indels: 3
DB: 12 Gaps: 0
US-09-989-724-387 (1-212) x BG427247 (1-855)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 33 ATGTGTGGCTGCTCTTTTCTGTGGTACTGCCATCTCTGACTCTCTGCAACAGGT 92
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 93 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 152
QY 41 AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 153 GCTCGGATACCAATGAAGATACTCTTCAAGCGATGTAGCTTTCTCCATGAGAAA 212
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuLeuCysAsnValThrGlnArg 80
DB 213 GTTCCCAACAGACAGACGACAGAAATTTCCATGTCTTCTTTCATGTAAACCCAGAG 272
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 273 GTATCATCTCGTTTGTGGTTTACAGACCTTCAAAAATCAGACCTTCTGCTGTGAG 332
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 333 GTGCAATCAGCCATAGAATGAACAGACGCGATCAACATGCTTCTTCTTAAATGAC 392
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 393 CAAACTCTGAAATTTTAAANAATCCCTTCACACTTGCACACCCATGGACCCATCTGTG 452
QY 141 ProIleTrpIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 453 CCCATCTGGATTAATATATTTGGTGTGATATTTTGCATCATCATAGTTGCAATGCACTA 512
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsn-LysGluProSerGluValAs 180
DB 513 CTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAAACAAAGAACCACTCTGAAGTGA 572
QY 180 pAspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPr 200
DB 573 TGAAGCTGAAGATAG-TGTGAAAACATGATCATCAATTTGAAATGGCATCCCTCTGATCC 631
QY 200 oLeuAspMetLysGly-GlyIleLeuMetMetProSer 212
DB 632 CCTGGACATGAAGGGGCGCATATTAATGATGCTTCA 669

RESULT 7
BG429618 866 bp mRNA linear EST 14-MAR-2001
LOCUS 602501304F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4614937 5',
DEFINITION mRNA sequence.
ACCESSION BG429618
VERSION BG429618.1 GI:13336124
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 866)
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-rcmail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
DNA Distribution: Incyte Genomics, Inc.
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
```

```

Qy 202 AspMetLysGly-GlyIleLeuMetMetProSer 212
Db 633 GACATGACGGCAGGCGCATATTTATGATGGCTTCA 667

RESULT 8
BG429174 780 bp mRNA linear EST 14-MAR-2001
LOCUS 602498032P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4612062 5',
DEFINITION mRNA sequence.
ACCESSION BG429174
VERSION BG429174.1 GI:13335680
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1359 row: o column: 07
High quality sequence stop: 718.
Location/Qualifiers
1. 780
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4612062"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_75"
/notes="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggccattggcc); Site 2: SfiI (ggccattggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGCCCTTATGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGGAGCGGCGCATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."

ORIGIN
Alignment Scores:
Pred. No.: 7,72e-124 Length: 780
Score: 1036.00 Matches: 202
Percent Similarity: 99.51% Conservative: 0
Best Local Similarity: 99.51% Mismatches: 0
Query Match: 94.01% Indels: 1
DB: 12 Gaps: 0

US-09-989-724-387 (1-212) x BG429174 (1-780)

Qy 11 AlatlleHisAlaGluLeuCysGlnProGlyAlaGluAsnAlaPheLysValArgLysSer 30
Db 2 GCCATTATGCTGAACCTCTGTCAACCGAGTGCAGAAATGCTTTTAAAGTCAGACTTAGT 61

Qy 31 IleArgThrAlaLeuGlyAspLysAlaTyralaTrpAspThrAsnGluGluTyrluPhe 50
Db 62 ATCAGACAGCTCTGGGAGATTAAGCATATGCTTGGGATACCAATGAAGATACCTCTTC 121

Qy 51 LysAlaMetValAlaPheSerMetArgLysValProAsnArgGluAlaThrGluLysSer 70
Db 122 AAAGCATGGTAGCTTCTCCATGAGAAAAGTTCCACACAGAGAGACAGAAATTTCC 181

```

```

Qy 71 HisValLeuLeuCysAsnValThrGlnArgValSerPheTrpPheValValThrAspPro 90
Db 182 CATGCTCTACTTTGCAATGTAACCCAGAGGGTATCAITTCGTGTTTGTGTTACAGACCT 241

Qy 91 SerLysAsnHisThrLeuProAlaValGluValGlnSerAlaIleArgMetAsnLysAsn 110
Db 242 TCAAAAATCAACACCTTCTGCTGTGAGGTGCATCATGCCATAGATAGAACAGAAC 301

Qy 111 ArgIleAsnAsnAlaPhePheLeuAsnAspGlnThrLeuGluPheLeuLysIleProSer 130
Db 302 CGGATCAACAATGCCTTCTTCTTAATGACCAACCTCTGGAATTTTAAAAAATCCCTTCC 361

Qy 131 ThrLeuAlaProProMetAspProSerValProIleTrpIleIlePheGlyValIle 150
Db 362 ACCTTGCACCAACCCATGACCCATCTGTGCCCATCTGGATTAATATATTTGGTGTGATA 421

Qy 151 PheCysIleIleIleValAlaIleAlaLeuLeuIleLeuSerGlyIleTrpGlnArgGAG 170
Db 422 TTTTGCATCATCATAGTTGCAATTCGACTACTGATTTTATCAGGATCTGGCACACGAGA 481

Qy 171 ArgLysAsnLysGluProSerGluValAspAlaGluAspLysCysGluAsnMetIle 190
Db 482 AGAAAGAACAAAGAACCATCTGAAGTGCATGACGCTGAAGATAAGTGTGAAAACATGATC 541

Qy 191 ThrIleGluAsnGlyIleProSerAspProLeuAspMetLysGly-GlyIleLysMetMe 210
Db 542 ACAATTGAAAATGGCATCCCTCTGATCCCTCGACATGAGAGGAGGCGCATATTAATGAT 601

Qy 210 tProSer 212
Db 602 GCCTTCA 608

RESULT 9
BG400319 791 bp mRNA linear EST 13-MAR-2001
LOCUS 602464526P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4592575 5',
DEFINITION mRNA sequence.
ACCESSION BG400319
VERSION BG400319.1 GI:13293767
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1331 row: c column: 08
High quality sequence stop: 711.
Location/Qualifiers
1. 791
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4592575"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_75"
/notes="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggccattggcc); Site 2: SfiI (ggccattggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGCCCTTATGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGGAGCGGCGCATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."

ORIGIN
Alignment Scores:
Pred. No.: 7,72e-124 Length: 780
Score: 1036.00 Matches: 202
Percent Similarity: 99.51% Conservative: 0
Best Local Similarity: 99.51% Mismatches: 0
Query Match: 94.01% Indels: 1
DB: 12 Gaps: 0

US-09-989-724-387 (1-212) x BG429174 (1-780)

Qy 11 AlatlleHisAlaGluLeuCysGlnProGlyAlaGluAsnAlaPheLysValArgLysSer 30
Db 2 GCCATTATGCTGAACCTCTGTCAACCGAGTGCAGAAATGCTTTTAAAGTCAGACTTAGT 61

Qy 31 IleArgThrAlaLeuGlyAspLysAlaTyralaTrpAspThrAsnGluGluTyrluPhe 50
Db 62 ATCAGACAGCTCTGGGAGATTAAGCATATGCTTGGGATACCAATGAAGATACCTCTTC 121

Qy 51 LysAlaMetValAlaPheSerMetArgLysValProAsnArgGluAlaThrGluLysSer 70
Db 122 AAAGCATGGTAGCTTCTCCATGAGAAAAGTTCCACACAGAGAGACAGAAATTTCC 181

```

kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."

ORIGIN

Alignment Scores:

Pred. No.: 1,94e-123 Length: 791
Score: 1033.00 Matches: 205
Percent Similarity: 99.03% Conservative: 0
Best Local Similarity: 99.03% Mismatches: 1
Query Match: 93.74% Indels: 2
DB: 12 Gaps: 0

US-09-989-724-387 (1-212) x BG400319 (1-791)

QY 1 MetLeuTrpLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 31 ATGTTGTGGCTGCTCTTTTCTGGTACTGCCATTCATGCTGAATCTGTCAACCAAGT 90
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 91 GCAGAAATGCTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 150
QY 41 AlaTrpAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 151 GCTGGGATACCAATGAAGATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA 210
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 211 GTTCCCAACAGAGACACAGAAATTTCCATGCTCTACTTTGCAATGTACCCAGAGG 270
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 271 GTATCATCTCTGTTTCTGGTTACAGACCTTCAAAAATCACACCTTCTCTGCTGTAG 330
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 331 GTGCAATCAGCCCATAGATGAACAGAACCGGATCAACAATGCCCTTCTTTCAAATGAC 390
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 391 CAACCTCTGGAATTTTAAATATCCCTTCCACACTTGCACCCATGACCCATCTGTG 450
QY 141 ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLe 160
DB 451 CCCATCTGCAATATTATTTTCGGTGTGATATTTTGCATCATCATATGTCATTCGACT 510
QY 160 uLeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAs 180
DB 511 ACTGAT-TTATCAGGGATCTGGCAACGTAGAGAAAGAACAAAGAACCACTCTGAATGGA 569
QY 180 PaspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPr 200
DB 570 TGAAGCTGAGATTAAGTGTGAATCATGATCATCAATTTGAATGGCATCCCTCTCATCC 629
QY 200 oLeuAspMetLysGlyGly 206
DB 630 CTGGACATGAAGGGAGGG 648

RESULT 10

BG429705

LOCUS 602493709F1 NIH_MGC_75 Homo sapiens cdna clone IMAGE:4607499 5',
DEFINITION mRNA sequence.

ACCESSION BG429705

VERSION BG429705.1 GI:13336211

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 804)

AUTHORS
TITLE
JOURNAL
COMMENT

NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
CDNA Library Preparation: CLONTECH Laboratories, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLC1348 row: a column: 04
High quality sequence stop: 731.
Location/Qualifiers

FEATURES

source

1..804
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4607499"
/lab_host="NIH MGC 75"
/clone_lib="NIH MGC 75"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
SfiI (ggccattatggcc); Site 2: SfiI (ggccattatggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGCCATTATGGCC-3' and 3' adaptor sequence:
5'-ATTCTAGGCGCGGCGCCGACATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."

ORIGIN

Alignment Scores:

Pred. No.: 1,62e-122 Length: 804
Score: 1026.00 Matches: 206
Percent Similarity: 96.73% Conservative: 1
Best Local Similarity: 96.26% Mismatches: 5
Query Match: 93.10% Indels: 3
DB: 12 Gaps: 0

US-09-989-724-387 (1-212) x BG429705 (1-804)

QY 1 MetLeuTrpLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 32 ATGTTGTGGCTGCTCTTTTCTGGTACTGCCATTCATGCTGAATCTGTCAACCAAGT 91
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 92 GCAGAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATTAAGCATAT 151
QY 41 AlaTrpAspThrAsnGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 152 GCTGGGATACCAATGAAGATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAA 211
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 212 GTTCCCAACAGAGAACAGAAATTTCCCATGCTCTACTTTGCAATGTAACCCAGAGG 271
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 272 GTATCATCTCTGTTTCTGGTTACAGACCTTCAAAAATCACACCTTCTCTGCTGTAG 331
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 332 GTGCAATCAGCCCATAGATGAACAGAACCGGATCAACAATGCTTCTTTCTTAAATGAC 391
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 392 CAACCTCTGGAATTTTAAATATCCCTTCCACACTTGCACCCATGACCCATCTGTG 451
QY 141 ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160


```

Db      452 CCCATCTGGATTATATATTTGGTGGATTTTGGCATCATCATAGTTGCAATTCACATA 511
Qy      161 LeuileLeuSerGlyileTpcGlnArgArg-ArglysAsnLysGluProSerGluValas 180
Db      512 CTGATTTATCAGGATCTGGCAACGTAGAACCAAGAACCAAGAACCACTCTGAGTGA 571
Qy      180 pAspAlaGluAspLysCysGluAsnMetileThrileGluAsnGlyileProSerAspPr 200
Db      572 TGACCTGAAGATAAGTGTGAACATGATCAATTTGCAATGGCATCCCTCTGATCC 631
Qy      200 OleuAspMetLysGly-GlyileLeuMetMetProSer 212
Db      632 CTG-CACATGAAGGAGGCGCATATTATATGTCCTTCA 668

RESULT 11
BG427839
LOCUS      602501524F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4615156 5',
DEFINITION      mRNA sequence.
ACCESSION      BG427839.1 GI:13334345
VERSION        BG427839
KEYWORDS       EST.
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 859)
AUTHORS        NIH-MGC http://mgc.nci.nih.gov/.
TITLE          National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL        Unpublished (1999)
COMMENT        Contact: Robert Strausberg, Ph.D.
                Email: cgapbs-r@mail.nih.gov
                Tissue Procurement: CLONTECH Laboratories, Inc.
                cDNA Library Prepared by: The I.M.A.G.E. Consortium (LLNL)
                DNA Sequencing by: Incyte Genomics, Inc.
                Clone distribution: MGC clone distribution information can be
                found through the I.M.A.G.E. Consortium/LLNL at:
                http://image.llnl.gov
                Plate: LLCW1367 row: p column: 05
                High quality sequence stop: 661.
                Location/Qualifiers
                1..859
                /organism="Homo sapiens"
                /mol_type="mRNA"
                /db_xref="taxon:9606"
                /clone="IMAGE:4615156"
                /lab_host="DH10B (T1 phage-resistant)"
                /clone_lib="NIH_MGC_75"
                /note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
                SfiI (ggccgctggcc); Site 2: SfiI (ggccattggcc); 5' and
                3' adaptors were used in cloning as follows: 5' adaptor
                sequence: 5'-CACGCGCATATGTC-3' and 3' adaptor sequence:
                5'-ATTCTAGAGCGGCGGCGGCACATG-dt(30)EN-3' (where B = A,
                C, or G and N = A, C, G, or T). Average insert size 1.65
                kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
                by PCR. This library was enriched for full-length clones
                and was constructed by Clontech Laboratories (Palo Alto,
                CA). Note: this is a NIH_MGC Library."

ORIGIN
Alignment Scores:
Pred. No.:      3.25e-122      Length:      859
Score:          1024.00      Matches:      205
Percent Similarity: 98.10%      Conservative: 1
Best Local Similarity: 97.62%      Mismatches: 3
Query Match:    92.92%      Indels:      3
DB:            12      Gaps:      0

US-09-989-724-387 (1-212) x BG427839 (1-859)

Qy      5 LeuphePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGlyAlaGluAsnAla 24

```

```

Db      1 GTCCTTTTCTGGTACTGCCATTCACTGCACTGTAACCTCTGTCAACAGGTGCAGAAATGCT 60
Qy      25 PheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaIleAlaIleTpsPThr 44
Db      61 TTTAAAGTCAGACTTAGTATCAGAACAGCTCTGGGAGATAAAGCATATGCTTGGGATACC 120
Qy      45 AsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLysValProAsnArg 64
Db      121 AATGAAGATATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAAGTTCCCAACAGA 180
Qy      65 GluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArgValSerPheTrr 84
Db      181 GAAGCAACAGAAATTTCCCATGTCTTTCATGTAACTGTAACCCAGAGGGGTATCATCTCTGG 240
Qy      85 PheValValThrAspProSerLysAsnHisThrLeuProAlaValGluValGlnSerAla 104
Db      241 TTTGTGTTACAGACCTTCAAAAATCACCCTTCTCTGCTGTGAGGTGCAATCAGCC 300
Qy      105 IleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAspGlnThrLeuGlu 124
Db      301 ATAAGAATGAACAAGAACCGGATCAACAATGCCCTTCTTTCTAAATGACCAAACTCTGAA 360
Qy      125 PheLeuLysIleProSerThrLeuAlaProProMetAspProSerValProIleTrrile 144
Db      361 TTTTAAAAATCCCTTCCACACTTGCACCACCATGACCCATCTGTGCCCATCTGGATT 420
Qy      145 IleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeuLeuIleLeuSer 164
Db      421 ATTATATTGGTGTGATATTTTGCATCATCATAGTTGCAATGCACTACTGATTTTATCA 480
Qy      165 GlyIleTrrGlnArgArgLysAsnLysGluProSerGluValAspAspAlaGluAsp 184
Db      481 GCGATCTGCAACGTAGAGAAGAACAAAGAACCACTCTGAAGTGGATGCGCTGAAGAT 540
Qy      185 LysCysGluAsnMetileThrileGluAsn-GlyIleProSerAspProLeu-AspMetL 204
Db      541 AAGTGTGAACCATGATCAATTTGAAATTTGCATCGCTCTGTATCCCTGGGACATGA 600
Qy      204 ysGly-GlyIleLeuMetMetPro 211
Db      601 AGGAGGGCATATTATGATGCC 624

RESULT 12
BG433974
LOCUS      602497274F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4611018 5',
DEFINITION      mRNA sequence.
ACCESSION      BG433974
VERSION        BG433974.1 GI:13340480
KEYWORDS       EST.
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 782)
AUTHORS        NIH-MGC http://mgc.nci.nih.gov/.
TITLE          National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL        Unpublished (1999)
COMMENT        Contact: Robert Strausberg, Ph.D.
                Email: cgapbs-r@mail.nih.gov
                Tissue Procurement: CLONTECH Laboratories, Inc.
                cDNA Library Preparation: CLONTECH Laboratories, Inc.
                cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
                DNA Sequencing by: Incyte Genomics, Inc.
                Clone distribution: MGC clone distribution information can be
                found through the I.M.A.G.E. Consortium/LLNL at:
                http://image.llnl.gov
                Plate: LLCW1357 row: c column: 19
                High quality sequence stop: 701.
                Location/Qualifiers
                1..782
                /organism="Homo sapiens"

```

```

/mol_type="mrna"
/db_xref="taxon:9606"
/clone="IMAGE:4611018"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_75"
/notes="Organ: Kidney; Vector: pDNR-LIB (Clontech); Site 1: SfiI (ggccattggcc); Site 2: SfiI (ggccattggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGGC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGCCGACATG-dt(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."

```

ORIGIN

```

Alignment Scores:
Pred. No.: 6.98e-122 Length: 782
Score: 1021.00 Matches: 206
Percent Similarity: 97.22% Conservative: 4
Best Local Similarity: 95.37% Mismatches: 2
Query Match: 92.65% Indels: 4
DB: 12 Gaps: 0

US-09-989-724-387 (1-212) x BG433974 (1-782)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 32 ATGTTGGCTGCTCTTTTCTGGTACATGCGCATTCATGTAACCTCTGTCAACCAAGT 91
QY 21 AlaGluAsnAlaPheLeuValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 92 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 151
QY 41 AlaTrpAspThrAsnGluLeuValPheLeuPheLeuValAlaMetValAlaPheSerMetArgLys 60
DB 152 GCTTGAATACCAATGAGATACCTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 211
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 212 GTTCCCAACAGAGAGACAGAAAATTCCTACTTCCATGCTCTACTTTCATATGTAACCCAGAG 271
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100
DB 272 GTATCATCTGGTTCTGGTTACAGACCCCTTCAAAAATACACACCCCTCTGCTGTGAG 331
QY 101 ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAsnAlaPhePheLeuAsnAsp 120
DB 332 GTGCATACGCNTAGATGATGACAGAACCGGATCAACATGCTCTTCTTAAATGAC 391
QY 121 GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProProMetAspProSerVal 140
DB 392 CAAACTCTGGAATTTTAAATATCCCTTCCACTTGCATCACCCTGACCCATCTGTG 451
QY 141 ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu 160
DB 452 CCATCTGATATATATATTTGGTGTGATATTTTGCATCATCATATAGTTGCAATGTGACTA 511
QY 161 LeuIleLeuSerGlyIleTrpGlnArgArgArgLysAsnLysGluProSerGluValAsp 180
DB 512 CTGATTTTATCAGGATCTGGCAACCTAGAGAAAGACAAAGAACCATCTGAGTGGAT 571
QY 181 AspAlaGluAsp-LysCysGluAsnMetIleThrIleGlu-AsnGlyIleProSerAsp- 199
DB 572 GACGCTGAAGATCAAGTGTGACACCATGATCACCATTGACAAATGGATGCCCTCTGAGT 631
QY 200 ProLeuAspMetLysGly-GlyIleLeuMetMetProSer 212
DB 632 CCCCTGGACATGAAGGGAGGGCATATATTAATGATGCTTCA 671

```

RESULT 13
BG399473

```

LOCUS BG399473 808 bp mRNA linear EST 12-MAR-2001
DEFINITION 602441206F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4557073 5',
mRNA sequence.
ACCESSION BG399473
VERSION BG399473.1 GI:12393021
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 808)
NIH-MGC http://mgc.nci.nih.gov/.
NATIONAL INSTITUTES OF HEALTH, Mammalian Gene Collection (MGC)
UNPUBLISHED (1999)
CONTACT: Robert Strausberg, Ph.D.
Email: c9apbs-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1260 row: 1 column: 02
High quality sequence stop: 637.
FEATURES
Location/Qualifiers
1..808
/organism="Homo sapiens"
/mol_type="mrna"
/db_xref="taxon:9606"
/clone="IMAGE:4557073"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH_MGC_75"
/notes="Organ: Kidney; Vector: pDNR-LIB (Clontech); Site 1: SfiI (ggccattggcc); Site 2: SfiI (ggccattggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATTATGGC-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGCGCCGACATG-dt(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."
ORIGIN
Alignment Scores:
Pred. No.: 1.09e-120 Length: 808
Score: 1012.00 Matches: 200
Percent Similarity: 96.23% Conservative: 4
Best Local Similarity: 94.34% Mismatches: 6
Query Match: 91.83% Indels: 2
DB: 12 Gaps: 0

US-09-989-724-387 (1-212) x BG399473 (1-808)

QY 1 MetLeuTrpLeuLeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly 20
DB 32 ATGTTGGCTGCTCTTTTCTGGTACATGCGCATTCATGTAACCTCTGTCAACCAAGT 91
QY 21 AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr 40
DB 92 GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAGCTCTGGGAGATAAGCATAT 151
QY 41 AlaTrpAspThrAsnGluLeuValPheLeuPheLysAlaMetValAlaPheSerMetArgLys 60
DB 152 GCTTGGATACCAATGAGATACCTCTTCAAGCGATGGTAGCTTCTCCATGAGAAA 211
QY 61 ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg 80
DB 212 GTTCCCAACAGAGAGACAGAAAATTCCTACTTCCATGCTCTACTTTCATATGTAACCCAGAG 271
QY 81 ValSerPheTrpPheValValThrAspProSerLysAsnHisThrLeuProAlaValGlu 100

```

Db 272 GTATCATTTCTGTTTGTGGTTACAGACCCCTTCAAAAATACACACCCCTTCTGCTGTGTGAG 331
 QY 101 ValGlnSerAlaileAerMetAsnLysAsnArgilleAsnAsnAlaPhePheLeuAsnAsp 120
 Db 332 GTGCATACCCATAGATGATGACAGAACCCGATCAACATGCTTCTTTCTAATGAC 391
 QY 121 GlnThrLeuGluPheLeuLysileProSerThrLeuAlaProProMetAspProSerVal 140
 Db 392 CAACCTCTGGAATTTTAAATAATCCCTTCCACACTTGCACACCCATGACCCATCTGTG 451
 QY 141 ProletThrIleillePheGlyVallePheCysilleillelelelelelelelelelelele 160
 Db 452 CCCATCTGATTAATATATTTGGTGTGATATTTGATATTCATCATATAGTTGCAATTCACAT 511
 QY 161 LeuileLeuSerGlyile 180
 Db 512 CTGATTTTATAGGATCTGGCACTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 571
 QY 181 AspAlaGluAspLys-Cys-GluAsnMetIleThrIleGluAsnGlyileProSerAsp 200
 Db 572 GACGCTGAAGATAGTTGTTGAAACATGATCCCAATCTGAATGGCTTCCCTCTGATC 631
 QY 200 roLeuAspMetLysGlyile 210
 Db 632 CCTGGACCTGAAG 663

RESULT 14
 LOCUS BG399402 736 bp mRNA linear EST 12-MAR-2001
 DEFINITION 602441161F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4557015 5',
 mRNA sequence.

ACCESSION BG399402

VERSION BG399402.1 GI:13292850

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 736)

NIH-MGC <http://mgi.nci.nih.gov/>

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.

cDNA Library Preparation: CLONTECH Laboratories, Inc.

DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

<http://image.llnl.gov>

Plate: L1CM1260 row: i column: 16

High quality sequence stop: 661.

Location/Qualifiers

1. .736

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4557015"

/lab_host="DH10B (T1 phage-resistant)"

/clone_lib="NIH MGC 75"

/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:

SfiI (ggcgcctggcc); Site 2: SfiI (ggcctatggcc); 5' and

3' adaptors were used in cloning as follows: 5' adaptor

sequence: 5'-CAGCGCATATGACC-3' and 3' adaptor sequence:

5'-ATTCTAGAGCCGCGCCGATG-3' (where B = A,

C, or G and N = A, C, G, or T). Average insert size 1.65

kb (range 0.5-4.0 kb). 15/15 colonies contained inserts

by PCR. This library was enriched for full-length clones

and was constructed by Clontech Laboratories (Palo Alto,

CA). Note: this is a NIH_MGC Library."

ORIGIN

Alignment Scores:
 Pred. No.: 1.73e-120 Length: 736
 Score: 1010.00 Matches: 204
 Percent Similarity: 98.09% Conservative: 1
 Best Local Similarity: 97.61% Mismatches: 2
 Query Match: 91.65% Indels: 3
 DB: 12 Gaps: 0

US-09-989-724-387 (1-212) x BG399402 (1-736)

QY 5 LeuPhePheLeuValThrAlaIleHisAlaGluLeuCysGlnProGlyAlaGluAsnAla 24

Db 4 CTCCTTTTCTGGTCACTGCCATTCATGCTGAACCTGTGCAACAGGTGCGAGAAATGCT 63

QY 25 PheLysValArgLeuSerIleArgThrAlaLeuGluAspLysAlaValAlaTrpAspThr 44

Db 64 TTTAAGTGAGACTTAGTATACAGACAGCTCTGGGAGATAAAGCATATGCTGGATACC 123

QY 45 AsnGluGluTrpLeuPheLysAlaMetValAlaPheSerMetArgLysValProAsnArg 64

Db 124 AATGAAGAATACCTCTTCAAGCGATGGTAGCTTTCTCCATGAGAAAAGTTCCCAACAGA 183

QY 65 GluAlaThrGluIleSerHisValleuLeuCysAsnValThrGlnArgValSerPheTrp 84

Db 184 GAAGCAACAGAAATTTCCCATGCTCTTCAATGTAAACCCAGAGGGGTATCATCTGG 243

QY 85 PheValValThrAspProSerLysAsnHisThrLeuProAlaValGluValGlnSerAla 104

Db 244 TTTTGGTTACAGACCTTCAAAAATACACCCCTTCTGCTGTGAGGTGCAATCAGCC 303

QY 105 IleArgMetAsnLysAsnArgIleAsnAlaPhePheLeuAsnAspGlnThrLeuGlu 124

Db 304 ATAAGAATGAACAGAACCGGATCAACATGCTTCTTCTAAATGACCAAACTCTGGAA 363

QY 125 PheLeuLysIleProSerThrLeuAlaProProMetAspProSerValProIleTrpIle 144

Db 364 TTTTAAAAATCCCTTCCACACTTGCACCCACCCATCTGTGCCCATCTGTGATT 423

QY 145 IleIlePheGlyValIlePheCysIleIleValAlaIleAlaLeuLeuLeuLeuLeu 164

Db 424 ATTATATTGGTGGATATTTTGGCATCATCATGTTGCAATGCACTACTGATTTATCA 483

QY 165 GlyIleTrpGlnArgArg-LysAsnLysGluProSerGluValAspAlaGluAs 184

Db 484 GGGATCTGGCAACGTAGAAGAAAGAACCAACCATCTGAAGTGGATGACCTGAAGA 543

QY 184 pLysCysGluAsnMetIleThrIle-GluAsnGlyIleProSerAspProLeuAspMetL 204

Db 544 TAAAGTGTGAACATGATCCAAATTTGAAAATGGCATCCCTCTGTATCCCTG-GACATGA 602

QY 204 ySGlyGlyIleLeuMetMetPro 211

Db 603 GGGAGGGCATATTAATGATGCT 625

RESULT 15

LOCUS BG430955

DEFINITION 602500255P1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4613965 5',

mRNA sequence.

ACCESSION BG430955

VERSION BG430955.1 GI:13337461

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 850)

NIH-MGC <http://mgi.nci.nih.gov/>

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.

cDNA Library Preparation: CLONTECH Laboratories, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>

Plate: LLC1364 row: n column: 14
 High quality sequence stop: 681.

FEATURES

Location/Qualifiers
 Source

1..850
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4613965"
 /lab_host="DH10B (T1 phage-resistant)"
 /clone_lib="NIH MGC 75"
 /note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
 SfiI (ggccgctcgcc); Site 2: SfiI (ggccattggcc); 5' and
 3' adaptors were used in cloning as follows: 5' adaptor
 sequence: 5'-CACGGCCATTATGGCC-3' and 3' adaptor sequence:
 5'-ATTCTAGAGCCGAGCGCCGACATG-dt(30)BN-3' (where B = A,
 C, or G and N = A, C, G, or T). Average insert size 1.65
 kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
 by PCR. This library was enriched for full-length clones
 and was constructed by Clontech Laboratories (Palo Alto,
 CA). Note: this is a NIH_MGC Library."

ORIGIN

Alignment Scores: 2,73e-119 Length: 850
 Pred. No.: 1001.50 Matches: 206
 Score: 97.18% Conservative: 1
 Percent Similarity: 96.71% Mismatches: 5
 Best Local Similarity: 90.88% Indels: 4
 Query Match: 12 Gaps: 0
 DB:

US-09-989-724-387 (1-212) x BG430955 (1-850)

Qy	1	MetLeuTriLeuLeuPheLeuValThrAlaIleHisAlaGluLeuCysGlnProGly	20
Db	36	ATGTTGTGGCTGCTCTTTTCTGGTGACGGCCATTCATGCTGTAACCTCTGTCAACCCAGGT	95
Qy	21	AlaGluAsnAlaPheLysValArgLeuSerIleArgThrAlaLeuGlyAspLysAlaTyr	40
Db	96	GCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACACAGCTCTGGGAGATAAGCATAT	155
Qy	41	AlaTrpAspThrAsnGluGluTyrLeuPheLysAlaMetValAlaPheSerMetArgLys	60
Db	156	GCCTGGATACCAATGAAGANTACCTCTTCAGAGCGATGTAGCTTTCTCCATGAGAAA	215
Qy	61	ValProAsnArgGluAlaThrGluIleSerHisValLeuLeuCysAsnValThrGlnArg	80
Db	216	GTTCCTCAACAGACAGACAGCAAAATTTCCCATGTCTACTTTGCAATGTAAACCCAGAGG	275
Qy	81	ValSerPheTrpPheValValThrAspProSerIysAsnHisThrLeuProAlaValGlu	100
Db	276	GTATCATTTCTGGTTTGTGGTTACAGACCCCTTCAAAAAATCACACCCCTTCCTGCTGTGAG	335
Qy	101	ValGlnSerAlaIleArgMetAsnLysAsnArgIleAsnAlaPhePheLeuAsnAsp	120
Db	336	GTGCAATTCACCCATAGATGAACAGAACCGGATCAACATGCCCTTCTTCTTAATGAC	395
Qy	121	GlnThrLeuGluPheLeuLysIleProSerThrLeuAlaProMetAspProSerVal	140
Db	396	CAAACTCTGCAATTTTAAAAATCCCTTCCACACTTGCACACCCCATGGACCCATCTGTG	455
Qy	141	ProIleTrpIleIleIlePheGlyValIlePheCysIleIleIleValAlaIleAlaLeu	160
Db	456	CCCATCTGGATTATTATTATTTGGTGTGATATTTTGCATCATCATAGTTGCAATTGCAC	515
Qy	161	LeuIleLeuSerGlyIleTrpGlnArgArgLysAsnLysGluProSerGluValAsp	180
Db	516	CTGATTTTATCAGGGATCTGGCAACGTAGAGAAAGAACCAAGAACCACTCTGANGGAT	575

Qy	181	AspAlaGluAspLysCysGluAsnMetIleThrIleGluAsnGlyIleProSerAspPro	200
Db	576	GAGCTGAAGATAG-TGTGAAAAACATGATCACAATTGAAAAATGGAT-CCCTCTGATCCC	633
Qy	201	LeuAspMetLysGly-GlyIleLeuMetMetProSer	212
Db	634	TG-GACATGAGGGAGGGCATATTACTGATGCTTCA	669

Search completed: April 4, 2004, 04:03:02
 Job time : 2727 secs